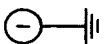
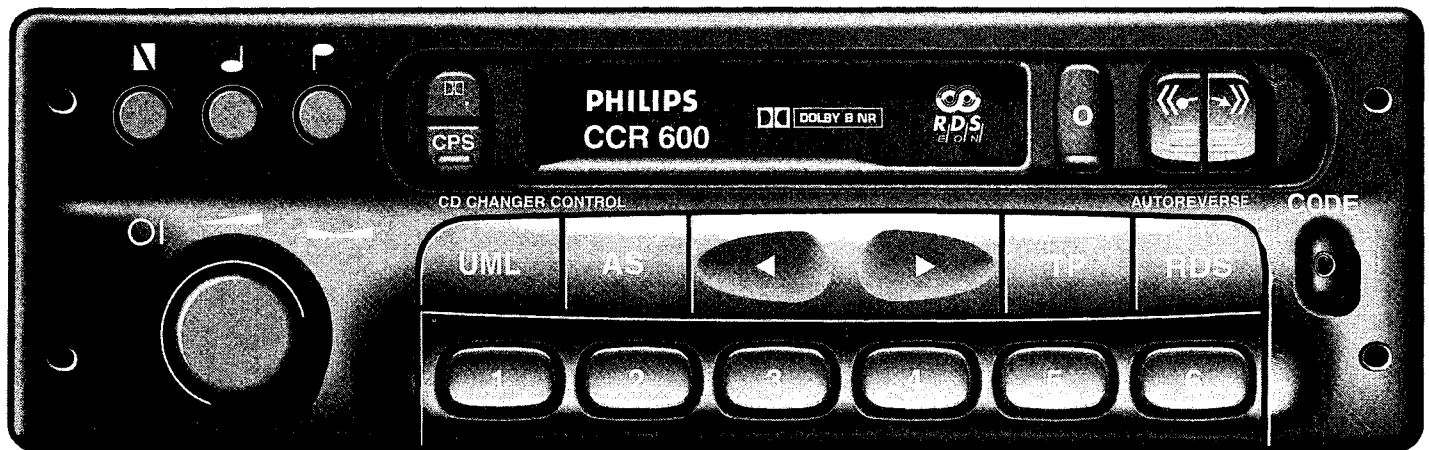


Service
Service
Service

For repair information of the Tape Deck see Service Manual LCA*1-4/1 (4822 725 23538)

Service Manual

12 V 



PHILIPS

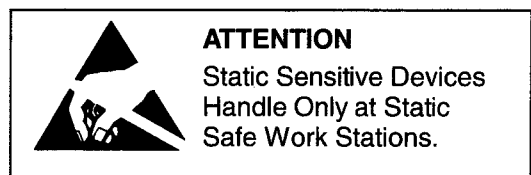
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WARNING

All ICs and many other semi-conductors are susceptible to electrostatic discharges (ESD). Careless handling during repair may reduce life time of these components drastically.

When repairing, make sure that you are connected with the same potential as the mass of the set via a wrist wrap with resistance. Keep components and tools also at this potential.



Appropriate ESD equipment can be ordered under followings service codes:

• Anti-static table mat	large 1200 x 650 x 1,25 mm	4822 466 10953
	small 600 x 650 x 1,25 mm	4822 466 10958
• Anti-static wrist band		4822 395 10223
• Connection box (1 M Ω)		4822 320 11307
• Extendible cable (to connect wrist band to conn. box)		4822 320 11305
• Connecting cable (to connect table mat to conn. box)		4822 320 11306
• Earth cable (to connect any product to mat or box)		4822 320 11308
• Complete kit ESD3 (combining all above products)		4822 310 10671
• Wristband tester		4822 344 13999

NOTE

For EEPROM programming purposes a Gateway Interface will be available by the beginning of 1997 at the Service Centre Eindhoven. More information regarding this item will be published separately.

If you have any problems concerning Security Code, EEPROM programming or defective EEPROMs in the meantime, please forward the set to:

Car Systems Wetzlar
Department SP - CS
Philipsstraße 1
35576 Wetzlar
Germany

TECHNICAL DATA

Power Supply

Supply voltage: 9–15,6 V
Quiescent Current: < 4 mA
Idle current (volume min.): < 0,9 A
Output automatic antenna: > 0,5 A

Tuner

Frequency range FM: 87,5–108 MHz
AM: 530–1620 kHz
LW: 153–279 kHz
Input impedance: 150 Ω

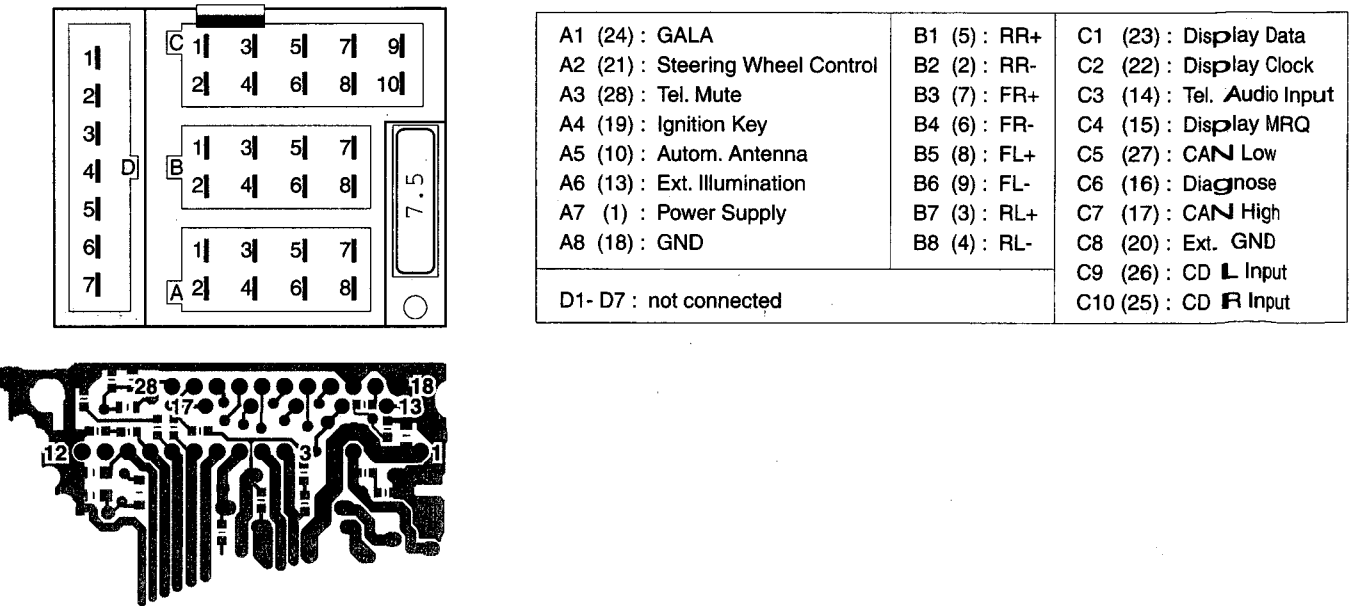
Cassette

Deck: LCA*1–4/1
Tape speed: 4,76 cm / sec
Wow & Flutter: ≤ 0,35 % RMS (+10 ... +45 °C)
Cross talk (track 2–3): < -40 dB
Winding time: ≤ 115 sec (C60)
Number of tracks: 2 x 2
Channel separation: > 35 dB
(track 1–2 / 3–4)

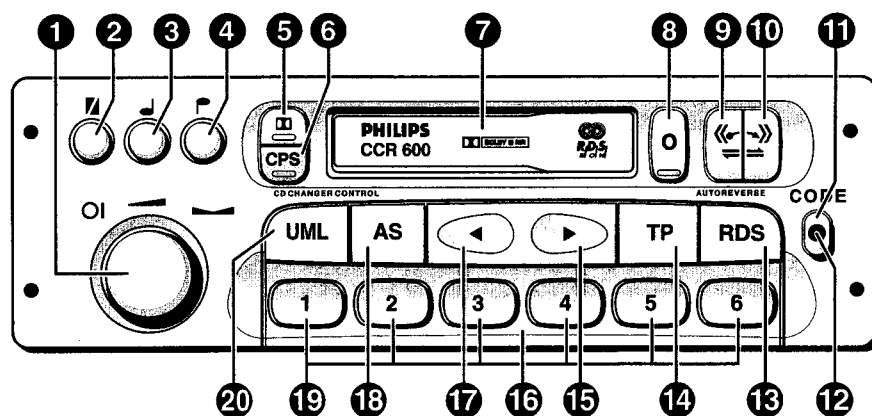
Amplifier

Output power: > 14 W (4 x 4 Ω / 14,4 V / 10 % THD)

CONNECTION



CONTROLS



- 1 ON/OFF, Volume, Balance**
Push to switch the set On/Off.
Turn to adjust the volume level.
Pull and turn to adjust the balance.
- 2 Fader**
Push to release and engage the button.
Turn to adjust the fader.
- 3 Bass**
Push to release and engage the button.
Turn to adjust the low notes.
- 4 Treble**
Push to release and engage the button.
Turn to adjust the high notes.
- 5 Dolby**
Press to switch 'Dolby B' On/Off.
- 6 CPS**
Press to switch the 'Cassette Program Search' On/Off in cassette mode.
Press to select 'Random Playback' in CD changer mode.
- 7 Cassette Opening**
- 8 Source Selection**
Press to pass through tuner, cassette and CD mode.
- 9 FRW**
Push for fast rewind in cassette mode (tuner reception during wind).
Push to rewind to the beginning of the actual track in CPS mode (no tuner reception during wind).
Push half-way in to stop fast forward and continue playback.
- 10 FFW**
Push to wind fast forward in cassette mode (tuner reception during wind).
Push to wind forward to the beginning of the next track in CPS mode (no tuner reception during wind).
Push half-way in to stop fast rewind and continue playback.

Push FRW and FFW button (9 & 10) simultaneously to eject the cassette.
Push FRW and FFW button (9 & 10) simultaneously half-way in to reverse play direction.
- 11 Detach Release**
Push to release the control panel.
- 12 Blink LED**
Blinking while the set is switched OFF and the security code is activated.
- 13 RDS**
Push briefly to switch RDS On/Off. Default : RDS ON.
Keep pressed for 2 sec to start FM Station Memory.

- 14 TP**
 Press to switch TP On/Off.
 Press to delete current traffic announcement without switching TP-mode Off.
 Press twice briefly to delete current traffic announcement and to switch TP Off.
- 15 Search Up**
 AM or FM while RDS & TP switched OFF:
 keep pressed for coarse tuning till desired frequency range is reached,
 press briefly for stepwise tuning upwards,
 keep pressed for about 1 sec to start automatic search upwards.
 FM while RDS switched OFF:
 keep pressed for about 1 sec to start automatic search upwards.
 FM while RDS switched ON:
 push briefly to scroll FM Station Memory,
 keep pressed for about 1 sec to start automatic search upwards.
 CD changer:
 push briefly to select next track.
- 16 Detachable Control Panel**
- 17 Search Down**
 AM or FM while RDS & TP switched OFF:
 keep pressed for coarse tuning till desired frequency range is reached,
 press briefly for stepwise tuning downwards,
 keep pressed for about 1 sec to start automatic search downwards.
 FM while RDS switched OFF:
 keep pressed for about 1 sec to start automatic search downwards.
 FM while RDS switched ON:
 push briefly to scroll FM Station Memory,
 keep pressed for about 1 sec to start automatic search downwards.
 CD changer:
 Push briefly to select previous track.
- 18 AS**
 Push briefly to switch to Autostore band (FM or MW).
 Keep pressed for 2 sec to start Autostore procedure (FM or MW).
- 19 Preset Keys**
 Push briefly to select prestored station.
 Keep pressed for 2 sec to store current station into the preset concerned.
 Keep pressed for 5 sec to switch REG On /Off for the preset concerned. The status will be displayed briefly. Default : REG OFF. If REG ON is selected, this will be displayed briefly after calling this preset.
 Push to select disk in CD changer mode.
- 20 UML**
 Press to pass through the wavebands (U → M → L → U →...).
 Press to return from Autostore band to non Autostore band.
 Keep pressed for about 1 sec in RDS mode to display the station frequency.
 Press briefly in cassette or CD mode to display the actual tuner station for 5 sec.

ADDITIONAL FEATURES

Security Code

Getting set into operation after interruption of power supply

After switching the set On the display shows "SAFE". Switch On the ignition and keep the AS key **18** pressed while switching the set On once again with the ON/OFF switch **1** until you hear the confirmation beep. The display shows "10 ----", where 10 is the number of remaining attempts. Enter the correct CODE with the aid of Preset keys 1 to 4 and confirm by keeping the AS key pressed for 3 sec.

If a wrong CODE has been entered, the display shows "9 SAFE" for a certain period, depending on the remaining attempts, and then "9 ----".

The SAFE period lasts 10 sec after the first two wrong attempts, 10 min after the third attempt, then the time is doubled up to 640 min after the ninth attempt. After ten unsuccessful attempts the set is blocked, the EEPROM has to be reprogrammed.

The set must not be switched Off during the SAFE period, otherwise the timer will start from the beginning.

Decoding

Decoding is only possible, when the ignition is switched ON.

Switch the set On while keeping the AS key **18** pressed until you hear the confirmation beep.

The display shows "CODE" and then "10 ----". Proceed as described above.

Coding

Proceed as described in 'Decoding'.

Every time the set is switched On the display briefly shows "CODE".

CD Changer Security Code

Getting CD changer into operation after interruption of power supply

If the CD changer is connected to the radio the display shows "CD-SAFE" after selecting CD changer with the source key. Switch the ignition On and keep the source key **8** pressed while switching the set On once again with the ON/OFF switch **1** until you hear the confirmation beep.

The display shows "10 ----", where 10 is the number of remaining attempts. Enter the correct CODE with the aid of preset keys 1 to 4 and confirm by keeping the source key pressed for 3 sec.

Decoding

Decoding is only possible, when the ignition is switched ON.

Switch the set On while keeping the source key **8** pressed until you hear the confirmation beep.

The display shows "CD-CODE" and then "10 ----". Proceed as described above.

Coding

Proceed as described in 'Decoding'.

Automatic Switch-On

If this feature is enabled, the set may either be switched On/Off by the power switch or by the ignition key.

If it is disabled, the set may be switched On/Off only by the power key.

To enable/disable the 'Automatic Switch-On' keep preset keys 1 and 3 pressed while switching the set On with the power switch until you hear the confirmation beep. The display shows "IGNI ON" or "IGNI OFF" resp..

The 'Automatic Switch-On' is always enabled after disconnecting the set from the power supply.

Enabling/disabling has no influence on the '1 hour Switch Off' timer which is always enabled.

Speed Dependent Volume Control

Keep UML key **20** pressed for 3 sec until you hear the confirmation beep. Use search keys **15** or **17** to adjust the desired setting between "SD-VOL 0" and "SD-VOL +5".

Keep UML key pressed again for 3 sec to store the new setting. After 10 sec without activating any key the set will automatically return to normal operation without change.

Impulse Setting

To choose the desired setting keep the UML **20** and Preset 1,2 or 3 keys pressed while switching the set On until you hear the confirmation beep. The status will be displayed briefly.

Setting 1: 2500 pulses / km

Setting 2: 16000 pulses / km

Setting 3: 25000 pulses / km

Telephone

The display shows "PHONE" anytime a call comes in or goes out.

Adjusting the telephone level for hands-free operation

If the hands-free operation is used, the telephone audio signal is processed via the car radio.

Adjust the volume level by keeping TP key ⑭ pressed while switching the set On until you hear the confirmation beep. Use search keys ⑮ or ⑰ to adjust the desired setting between "PH-VOL -3" and "PH-VOL +3".

Keep TP key pressed again for 3 sec to store the new setting. After 10 sec without activating any key the set will automatically return to normal operation without change.

The hands-free operation has priority over Traffic Announcements:

If [TP] is activated during a phone call, the station name is displayed instead of "PHONE" during a Traffic Announcement, but telephone will be heard via the loudspeakers.

With the aid of the TP key one can select either telephone or Traffic Announcement reproduction.

TA Volume Level

Keep TP key ⑭ pressed for 3 sec until you hear the confirmation beep. Use search keys ⑮ or ⑰ to adjust the desired setting between "TP-VOL -3" and "TP-VOL +3".

Keep TP key pressed again for 3 sec to store the new setting. After 10 sec without activating any key the set will automatically return to normal operation without change.

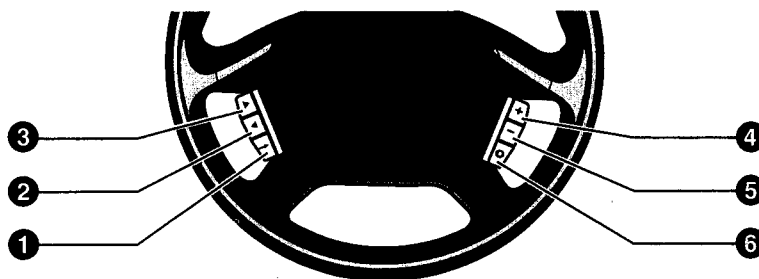
Display Logic

Keep presets 4 and 6 pressed while switching the set On to toggle between 8 and 10 digit display until you hear the confirmation beep. The status will be displayed briefly.

MW Tuning Step Setting

Keep presets 2 and 5 pressed while switching the set On to toggle between 9 and 10 kHz tuning steps until you hear the confirmation beep. The status will be displayed briefly.

STEERING WHEEL CONTROLS



The SWC works in parallel to the radio controls and applies a DC voltage to pin A2 of the connector block. (Refer to SPECIFICATION CHECK)

- | | | |
|---|---|---|
| ① | ➔ | Increment preset number of selected wave band / Select next disc in CD changer mode |
| ② | ◀ | Search downwards / Select previous track in CD changer mode |
| ③ | ▶ | Search upwards / Select next track in CD changer mode |
| ④ | + | Volume Up |
| ⑤ | - | Volume Down |
| ⑥ | ⦿ | Select Source |

SPECIFICATION

General

Supply voltage:	9 ... 15,6 V
Quiescent current, LED off:	< 4 mA
Idle current, FM mode, volume min.:	< 500 mA
Autom. antenna output:	13,5 V; min. 0,5 A
Output power (14,4 V; 10 % THD):	> 14 W
Different source level:	(FM: 98 MHz; 22,5 kHz; 400 Hz; 1 mV) (AM: 1053 kHz; 30 %; 400 Hz; 1 mV) (CC: 400 Hz; 200 nW/m; Dolby level) (CC: 315 Hz; 250 nW/m; 0 dB level) (CD: 0 dB; 1 kHz; test disc)
FM:	ref.
AM:	4,5 dB $\pm$ 2 dB
CC Dolby level:	12,5 dB $\pm$ 2 dB
CC 0 dB level:	14,5 dB $\pm$ 2 dB
CD:	18,5 dB $\pm$ 2 dB
Channel difference:	0 dB $\pm$ 1,5 dB
TA volume level (1 kHz):	10 mW $\pm$ 2,5 dB
Range:	$\pm$ 7,5 dB
Grid:	2,5 dB
Frequency response (5 W / 4 Ω ; 1 kHz; 22,5 kHz):	
FM -3 dB:	40 Hz ... 15 kHz
AM -3 dB:	80 Hz ... 2,5 kHz
Telephone mute:	Low-active (< 1,8 V)
Input current when active:	1 mA ... 3 mA
Telephone volume (PH level 0):	- 10 dB (ref. to input voltage)
Telephone input sensitivity:	0,1 ... 6 V
Range:	$\pm$ 7,5 dB
Grid:	2,5 dB

Tuner

Aerial input impedance:	150 Ω
Frequency range:	FM: 87,5 ... 108 MHz MW Europe: 531 ... 1602 kHz MW USA: 530 ... 1620 kHz LW: 153 ... 279 kHz
Bands / Presets:	FM / 6 FM AS / 6 MW / 6 MW AS / 6 LW / 6
26 dB S/N sensitivity	FM: < 11 dB μ V AM: < 30 dB μ V
S/N ratio at 1mV	FM mono: > 55 dB FM stereo: > 45 dB AM: > 45 dB
α - 3 dB:	13 dB μ V $\pm$ 3 dB

FM stereo separation:			> 28 dB
Signal dependent stereo 10 dB:			43 dBμV ± 3 dB
Search grid:	Autostore	autom.	man.
FM-band	100 kHz	100 kHz	100 kHz
MW-band Europe	9 kHz	9 kHz	1 kHz
MW-band USA	10 kHz	10 kHz	1 kHz
LW-band	—	3 kHz	1 kHz
Automatic search level		FM AS:	28 dBμV (24 μV)
		FM 1:	52 dBμV (420 μV)
		FM 2:	46 dBμV (200 μV)
		FM 3:	40 dBμV (100 μV)
		FM 4:	20 dBμV (10 μV)
		AM AS:	23 dBμV (15 μV)
		AM 1:	52 dBμV (420 μV)
		AM 2:	46 dBμV (200 μV)
		AM 3:	40 dBμV (100 μV)
		AM 4:	23 dBμV (15 μV)
Distortion (98 MHz; 75 kHz; 1 mV):			< 1,5 %
(1053 kHz & 207 kHz; 95 %; 1 mV):			< 2,0 %

Cassette

Tape speed:		4,76 cm / s
Drift (TEAC MTT 211A):		+3 .. -1 %
Flutter (TEAC MTT 211A):		< 0,35 % (+10 ... +45 °C)
Winding time (C60):		< 115 s
S/N ratio (TEAC MTT 212N):		
w/o Dolby, Cr:		nom. > 48 dB
Dolby B, Cr:		nom. > 56 dB
Channel separation (TEAC MTT 141N):		> 35 dB
X-Talk (TEAC MTT 121N):		> 40 dB

Steering wheel control

Idle current:		< 10 μ A
Current consumption one key depressed:		< 10 mA
Control voltages:		
Volume down key:		0,73 V $\pm$ 0,1 V
Volume up key:		1,28 V $\pm$ 0,1 V
Source key:		1,85 V $\pm$ 0,1 V
Search up key:		2,43 V $\pm$ 0,1 V
Search down key:		3,05 V $\pm$ 0,1 V
Next key:		3,66 V $\pm$ 0,1 V
Diagnosis:		4,25 V $\pm$ 0,1 V

ON / OFF LOGIC

	Set switched On Ignition On	Set switched Off Ignition On	Set switched On Ignition On	Set switched On Ignition On
IC 7401 Pin 4 - Vcc	> 3,8 V	> 3,8 V	< 0,5 V	< 0,5 V
IC 7401 Pin 5 - GND	= 0 V	= 0 V	= 5 V	= 5 V
IC 7401 Pin 2 - 4,5 V GND	= 5 V	= 5 V	= 5 V	= 5 V
IC 7401 Pin 3 - 4,5 V GND	= 0 V	= 0 V	= 5 V	= 5 V
IC 7401 Pin 7 - 4,5 V GND	= 0 V	> 2,7 V	= 0 V	> 2,7 V
IC 7401 Pin 68 - SWITCH 7V	> 3,4 V	> 3,4 V	= 0 V	= 0 V
IC 7401 Pin 62 - SET ON	> 3,0 V	> 3,0 V	= 0 V	= 0 V

If one or more of these conditions are not fulfilled the On / Off logic will not work properly.

ADJUSTMENTS

Perform all adjustments and measurements under following conditions, if not otherwise stated:

Power supply: 14,4 V

FM: RF = 98,0 MHz; m = 22,5 kHz; AF = 1 kHz; Level = 1 mV

Stereo: pilot = 9 % (6,75 kHz)

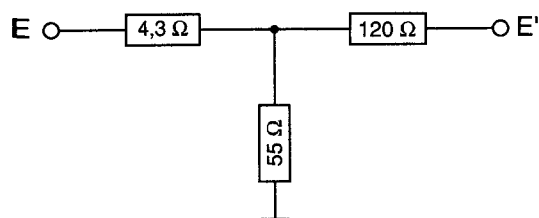
RDS: carrier = 1,7 %

Aerial: 150 Ω ; -6 dB standard aerial (set E = E')

AM: RF = 1053 kHz; m = 30 %; AF = 1 kHz; Level = 1 mV

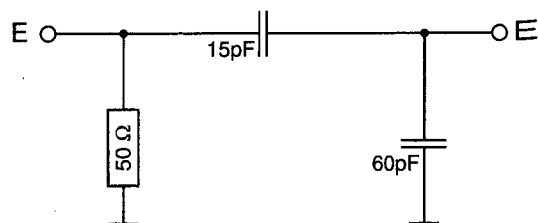
Aerial: -14 dB standard aerial; **for measurements adjust 14 dB offset**

FM Aerial -6 dB:



Note: Set E = E'

AM Aerial -14 dB:



Note: Adjust offset = 14 dB

How to adjust the noise detector

RF = 98 MHz; m = 75 kHz; AF = 40 kHz; Level = 1 mV

Adjust pot 3426 to get an output of 850 mV (AC) at pin 14 of IC 7420.

Dolby level

Use the test cassette TEAC MTT150 to adjust the Dolby level.

Set pot 3540 and 3543 to get an output of 387,5 mV (AC) at pins 1 and 24 of the Dolby IC (Pos. 7510).

EEPROM PARAMETER SETTINGS TABLE

No	Function	Range	Grid	def. Value	def. PAR	Eeprom Address
Tuner Adjustment						
10	TP maximum time out / auto tuning time cycle	01 ÷ 0F H/ 10 ÷ 150 s	10 s	60 s	06 H	37 H
RDS Parameter						
16	Synchronization break down time out cycle during TA	01 ÷ 0F H/ 10 ÷ 150 s	10 s	120 s	0C H	41 H
17	TP-EON acceptance level for TA	35 ÷ FF H		38 dBµV	95 H	38 H
18	FM-Memory, Non-RDS station acceptance level	35 ÷ FF H 20 ÷ 60 dBµV		36 dBµV	8A H	31 H
19	LV = Field strength reaction level	00 ÷ 06 H	synthetic values for receiver sub- system		03 H	34 H
20	MP = Multipath reaction level	00 ÷ 06 H			03 H	36 H
21	REL = Suppression counter release	40 ÷ C0 H			60 H	33 H
22	SUPP = Suppression counter	10 ÷ C0 H			96 H	32 H
23	NS = Noise reaction level	00 ÷ 06 H			03 H	35 H
24	AF check agility static	11 ÷ 30 H/ 12 ÷ 4,4 min			1A H	3D H
25	AF check agility dynamic	02 ÷ 05 H/ 0,2 ÷ 0,5 s	0,1 s	0,4 s	04 H	3E H
26	Minimum duration between AF checks	02 ÷ 14 H/ 0,2 ÷ 2 s	0,2 s	0,8 s	04 H	3F H
27	AF minimum quality base	5A ÷ 80 H	synth. val		74 H	40 H
Audio Control						
31	TA Bass level	00 ÷ 06 H/ -6 dB ÷ +6 dB	± 2 dB	+2 dB	04 H	45 H
32	TA Treble level	00 ÷ 06 H/ -6 dB ÷ +6 dB	± 2 dB	-2 dB	02 H	46 H
33	TA Fader level (Rear to Front)	00 ÷ 06 H/ -15 ÷ 0 dB	2,5 dB	-2,5 dB	05 H	44 H
34	Telephone Bass level	00 ÷ 06 H/ -6 dB ÷ +6 dB	± 2 dB	0 dB	03 H	4B H
35	Telephone Treble level	00 ÷ 06 H/ -6 dB ÷ +6 dB	± 2 dB	-2 dB	02 H	4C H
36	Telephone Fader level (Rear to Front)	00 ÷ 06 H/ -15 ÷ 0 dB	2,5 dB	-2,5 dB	05 H	4A H
37	Power-On Volume level	00 ÷ 1A H/ -80 ÷ 0 dB	table 4, page 12	-37 dB	06 H	50 H
Speed Dependent Control						
41	SD-FRQ1 (v1) / + 2 dB Bass	00 ÷ FF H/	1 km/h	70 km/h	46 H	55 H
42	SD-FRQ2 (v2) / + 2 dB Bass	0 ÷ 255 km/h		120 km/h	78 H	56 H
43	SD-FRQ3 (v3) / + 2 dB Bass			40 km/h	28 H	57 H
44	SD-FRQ4 (v4) / + 2 dB Bass			90 km/h	5A H	58 H
45	SD-FRQ5 (v5) / + 2 dB Bass			140 km/h	8C H	59 H
Illumination						
51	Illumination Logic A/B	00, 01 H/ A, B		Logic A	00 H	5A H
52	Illumination level X0	00 ÷ FF H			01 H	5B H
53	Illumination level Y0				00 H	5C H
54	Illumination level X1				4B H	5D H
55	Illumination level Y1				0A H	5E H

TEST MODE

Start the Test Mode by keeping the RDS key pressed for 5 sec while the set is switched ON, independent of the actual source, however the diagnostics must not be active.

The hardware and software identification number will be displayed for 1 sec, after that the RDS-signal quality will be evaluated acc. to table 1.

During the Test Mode all tuner features are accessible, except RDS On/Off. To leave the Test Mode keep the RDS key pressed again for 5 sec or switch the set Off.

Display	Description	Range
HHHHSSSS	HHHH = hardware number SSSS = software number	
AQSXFFF.F	A = field strength Q = quality S = suppression counter X = switching reasons FFF.F = frequency	6 - F (ref. to table 2) 0 - F 0 - F 0 - F (ref. to table 3) MHz
CPS	CPS = RDS sync. state	on = locked
□□	□□ = PI code verification	on = verified
Cr/LED	Cr/LED = AF change request	on = request

Table 1: Test Mode

Display	Level
F	> 60 dBμV
E	> 55 dBμV
D	> 50 dBμV
C	> 45 dBμV
B	> 40 dBμV
A	> 35 dBμV
9	> 30 dBμV
8	> 25 dBμV
7	> 20 dBμV
6	< 20 dBμV

Table 2: Field Strength

Indication

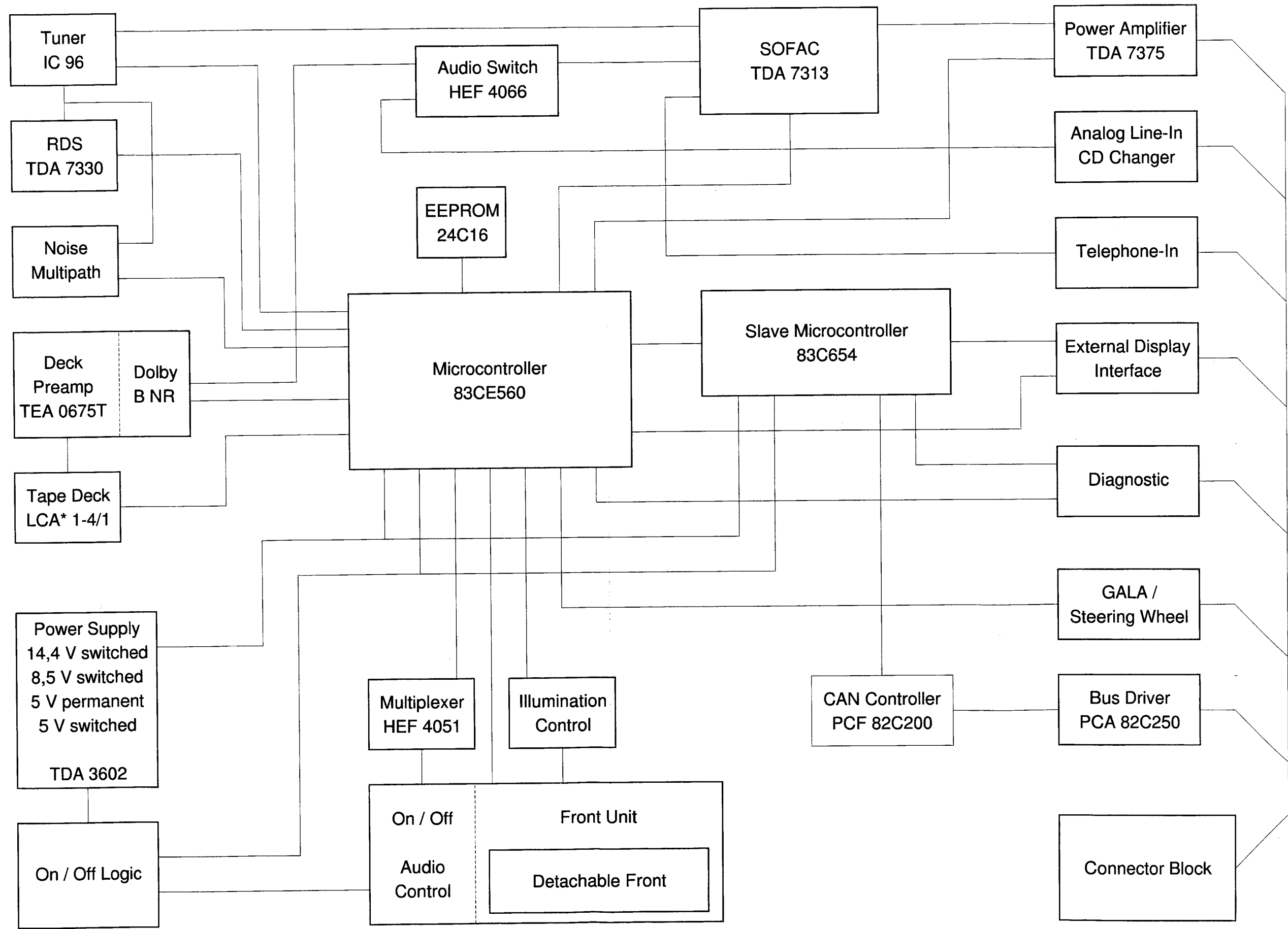
Display	Switching Reason
0	not used
1	weak field strength
2	weak multipath
3	weak field strength and weak multipath
4	strong multipath
5	strong multipath and weak field strength
6	very strong multipath
7	very strong multipath and weak field strength
8	adjacent channel distortion
9	adjacent channel distortion and weak field strength
A	adjacent channel distortion and weak multipath
B	adjacent channel distortion, weak field strength and weak multipath
C	adjacent channel distortion and strong multipath
D	adjacent channel distortion, strong multipath and weak field strength
E	adjacent channel distortion and very strong multipath
F	adjacent channel distortion, very strong multipath and weak field strength

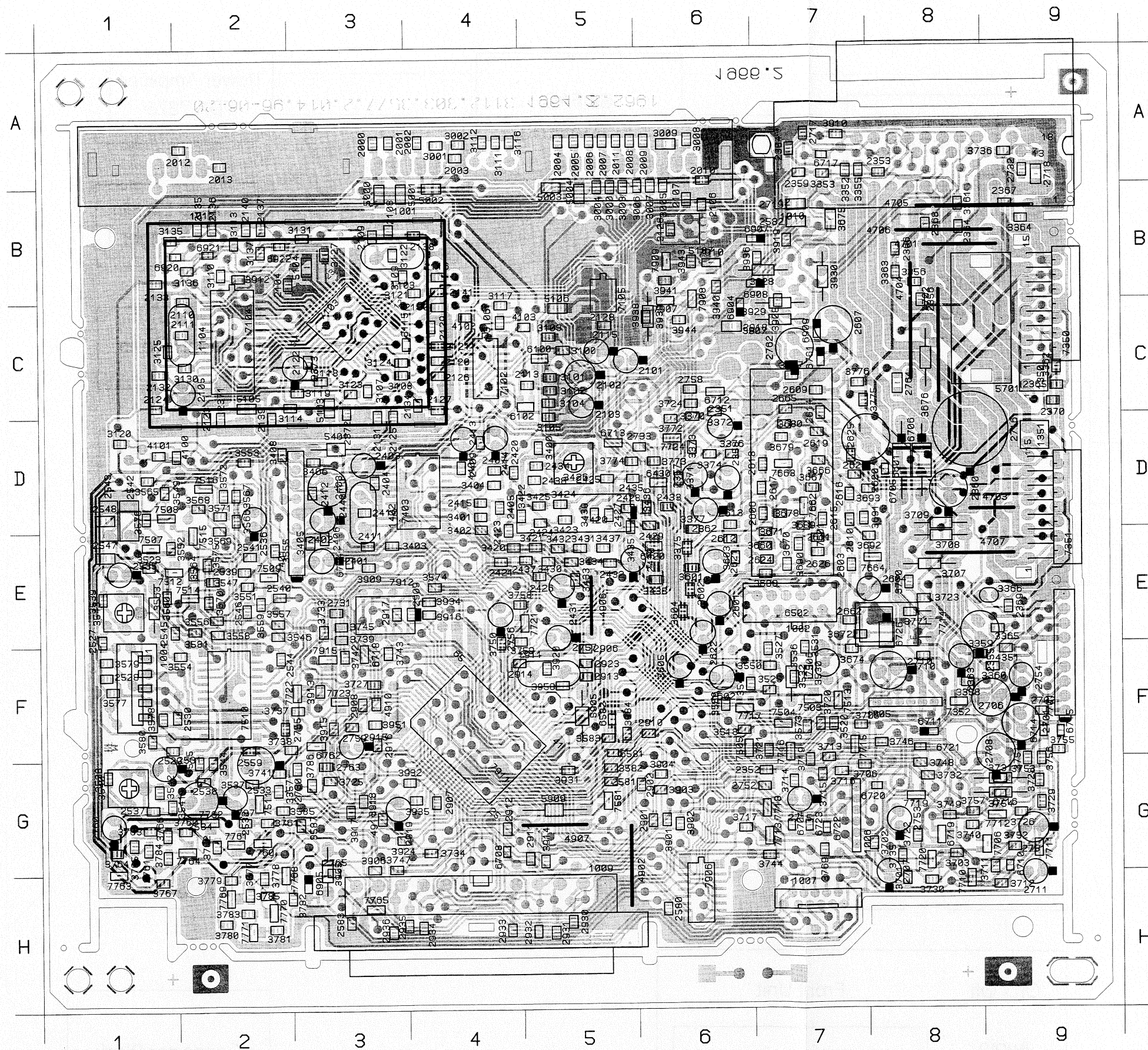
Table 3: Switching Reason Indication

Digits	Level
00	-88 dB
01	-55 dB
02	-45 dB
03	-40 dB
04	-39 dB
05	-38 dB
06	-37 dB
07	-35 dB
08	-34 dB
09	-32 dB
0A	-31 dB
0B	-30 dB
0C	-28 dB
0D	-27 dB
0E	-26 dB
0F	-25 dB
10	-24 dB
11	-23 dB
12	-22 dB
13	-20 dB

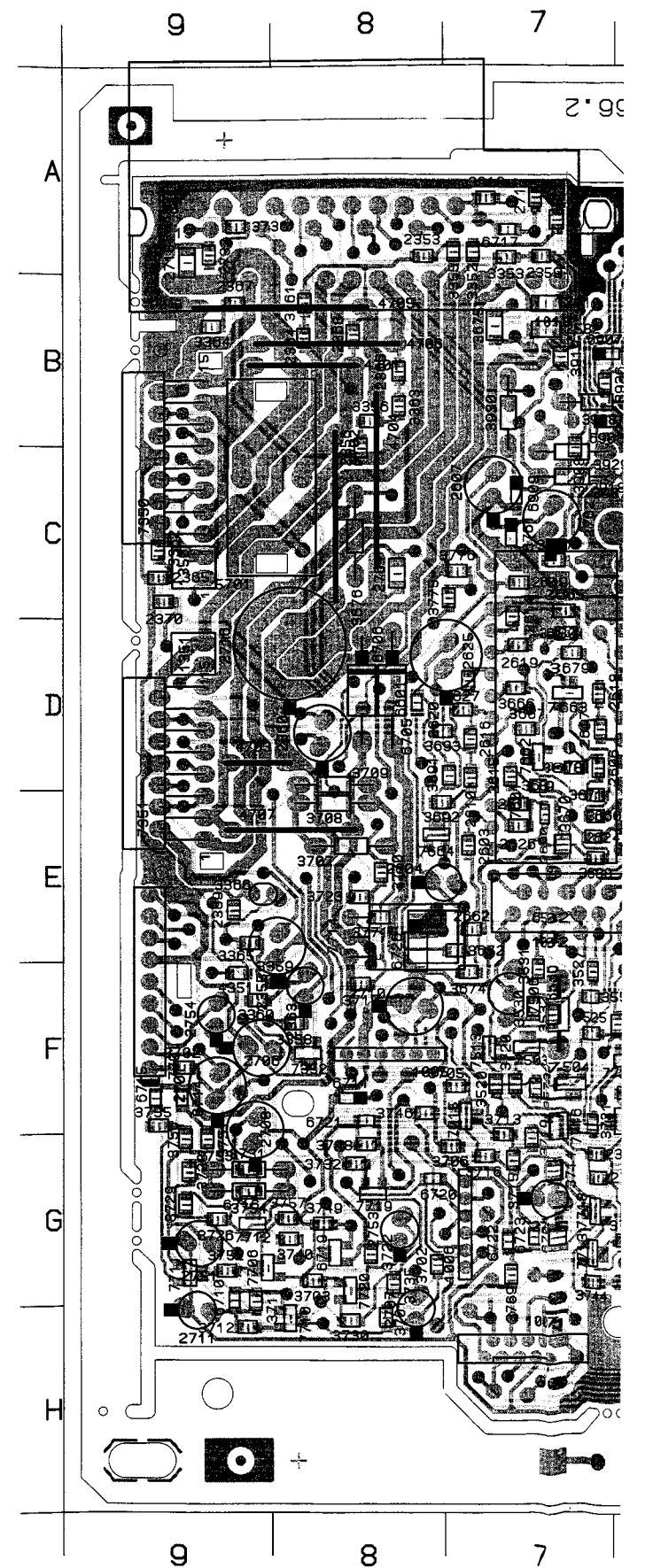
Table 4: Volume Level

BLOCK DIAGRAM

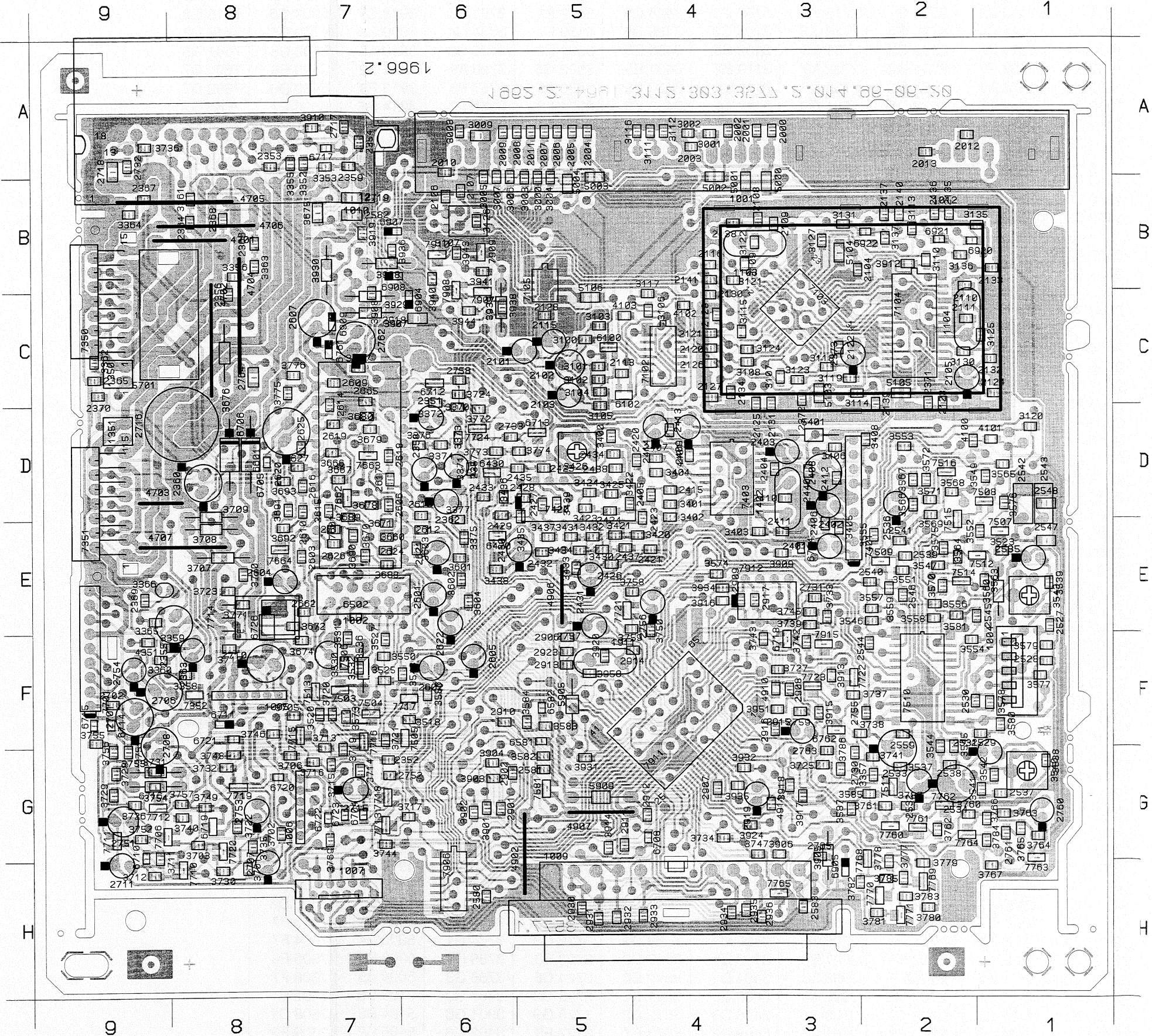




1001 A4	2138 B4	2529 F1	2717 A7	3105 D5	3423 D5	3577 F1	3731 G9	3906 G3	5701 C8	7513 F7
1002 E7	2139 D2	2530 F1	2718 A9	3106 C4	3424 D5	3578 F1	3732 G8	3907 C7	5905 F5	7514 E2
1004 F1	2140 B2	2531 G1	2719 B7	3107 C3	3425 D5	3579 F1	3733 E3	3908 C7	5909 G5	7515 E2
1005 F8	2141 B4	2532 G2	2730 G3	3108 C3	3426 D5	3580 F1	3734 G4	3909 E3	6100 C5	7516 D2
1006 G7	2351 D6	2533 G2	2731 E3	3109 B3	3430 E5	3581 E2	3735 G8	3910 A7	6102 C5	7581 G5
1007 H7	2352 G7	2534 G2	2732 A9	3110 B2	3431 E5	3582 G5	3736 A9	3912 B2	6420 E6	7601 D7
1009 H4	2353 A8	2535 E1	2733 D6	3111 A4	3432 E5	3583 F5	3737 F3	3913 F3	6430 D6	7662 D7
1010 A8	2354 A7	2536 D2	2751 G9	3112 A4	3433 E5	3584 F5	3738 F2	3914 G5	6502 E7	7663 D7
1012 C3	2355 E8	2537 G1	2752 G7	3113 B2	3434 E5	3585 G2	3739 E3	3915 F3	6581 F5	7664 E8
1103 B3	2356 C8	2538 G2	2753 G8	3114 C3	3435 D5	3586 F6	3740 G8	3916 E4	6582 F5	7701 F9
1104 C2	2357 D6	2539 E2	2754 F9	3115 C4	3436 D6	3587 G3	3741 G2	3917 G3	6601 D8	7706 G9
1350 C9	2358 D6	2540 E2	2755 F2	3116 A4	3437 E5	3601 E6	3742 F3	3918 G3	6704 G7	7710 H8
1351 D9	2359 A7	2541 E2	2756 E4	3117 C4	3438 E6	3602 E6	3743 F3	3919 B7	6705 D8	7711 G9
1402 D3	2360 D8	2542 D1	2757 E5	3118 C3	3439 D5	3603 E6	3744 G7	3920 F5	6706 D8	7712 G9
1911 F5	2362 D6	2543 D1	2758 C6	3119 C3	3518 F6	3604 E6	3745 E3	3924 G3	6708 G4	7713 G7
2000 A3	2363 F8	2544 F2	2759 F3	3120 D1	3520 F7	3660 E7	3746 F8	3928 B7	6710 G9	7714 E8
2001 A3	2364 B8	2545 E1	2760 G1	3121 B4	3523 E1	3666 D7	3747 G3	3929 C7	6711 F8	7715 F7
2002 A4	2365 C9	2546 E2	2761 G1	3122 B3	3525 F7	3667 D7	3748 G8	3930 B7	6712 C6	7716 F7
2003 A4	2366 B8	2547 E1	2762 C7	3123 C3	3527 F7	3670 E7	3749 G8	3931 G5	6713 D5	7717 F6
2004 A5	2367 B9	2548 D1	2763 G3	3124 C3	3530 F7	3671 E7	3750 E4	3932 G4	6714 F9	7718 G7
2005 A5	2368 B8	2559 F2	2764 C8	3125 C1	3531 F7	3672 E7	3751 G9	3934 E4	6715 F9	7719 G8
2006 A5	2369 E9	2580 H6	2765 G3	3126 B6	3532 F7	3674 F7	3752 G9	3935 G4	6716 G9	7720 G8
2007 A5	2370 C9	2581 G5	2901 G6	3127 B3	3536 F7	3675 B7	3753 G9	3936 B7	6717 A7	7721 E5
2008 A5	2371 C2	2582 B7	2902 G6	3130 C2	3537 G2	3676 C8	3754 G9	3937 C7	6718 F3	7722 F3
2009 A6	2372 C3	2583 H3	2906 F5	3131 B3	3538 G1	3678 D7	3755 F9	3938 C6	6719 G8	7723 F3
2010 A6	2373 C3	2601 E6	2907 G4	3135 B1	3539 E1	3679 D7	3756 G9	3939 C6	6720 G8	7724 D6
2011 A5	2401 E3	2602 F6	2908 F3	3136 B2	3540 G1	3680 D7	3757 G8	3940 B6	6721 F8	7760 G2
2012 A2	2402 D3	2603 E7	2909 E4	3137 B2	3541 G1	3688 E7	3758 E4	3941 B6	6722 G7	7761 G2
2013 A2	2403 D3	2604 E8	2910 F6	3352 A7	3542 G1	3689 D7	3759 E4	3943 B6	6723 G7	7762 G2
2101 C5	2404 D3	2605 F6	2911 G5	3353 A7	3543 E1	3690 E7	3760 G2	3944 C6	6724 E3	7763 G1
2102 C5	2405 D4	2606 D7	2912 G4	3355 A7	3544 G2	3691 D7	3761 G2	3951 F3	6726 E8	7764 G2
2103 C5	2406 E3	2607 C7	2913 F5	3356 B8	3545 G2	3692 E8	3762 G2	3958 F5	6761 C7	7765 H3
2104 B2	2407 D4	2609 C7	2914 F4	3357 G2	3546 E2	3693 D8	3763 G1	4100 D2	6762 F3	7768 G2
2105 C2	2408 D3	2610 D7	2915 F3	3358 F8	3547 E2	3701 H8	3764 G1	4101 D1	6904 C6	7769 H2
2106 B6	2409 D4	2611 E7	2916 F3	3359 F8	3548 F6	3702 G8	3765 G1	4102 C4	6905 H3	7770 H2
2107 B6	2410 D3	2612 E6	2917 E3	3360 F9	3549 D1	3703 G8	3766 G1	4103 C5	6907 B7	7771 H2
2108 B3	2411 E3	2613 D6	2918 C6	3361 B8	3550 F7	3705 F7	3767 H1	4351 F9	6908 B7	7906 H6
2109 B3	2412 D3	2614 C7	2919 G3	3362 C9	3551 E2	3706 G7	3769 G7	4401 D4	6909 C7	7907 C6
2110 B2	2413 D4	2615 D7	2923 F5	3363 B8	3552 E1	3707 E8	3770 E8	4701 B8	6920 B2	7908 B6
2111 C2	2414 D4	2616 D7	2930 H5	3364 B9	3553 D2	3708 E8	3771 E8	4702 C8	6921 B2	7909 B6
2113 C5	2415 D4	2617 D7	2931 H5	3365 E9	3554 F2	3709 D8	3772 D6	4703 D9	6922 B2	7910 B6
2115 C5	2420 D4	2618 D7	2932 H5	3366 E9	3555 E2	3710 F8	3773 D6	4704 C8	7102 C4	7911 F4
2116 B4	2421 E4	2619 D7	2933 H4	3370 D6	3556 E2	3711 G9	3774 D5	4705 B8	7103 C3	7912 E3
2120 C4	2423 D4	2620 D7	2934 H4	3371 D6	3557 E2	3712 H9	3775 C7	4706 B8	7104 C2	7915 F3
2121 C4	2424 D5	2621 E6	2935 H3	3372 C6	3558 E2	3713 G7	3776 C7	4707 E8	7105 B5	
2122 C3	2425 D5	2622 E6	2936 H3	3373 D6	3559 E2	3714 G7	3777 H2	4902 G5	7350 C9	
2123 C2	2426 E5	2624 E7	3000 B5	3374 D6	3560 E1	3715 G7	3778 H2	4906 E5	7351 D9	
2124 C1	2427 D5	2625 D7	3001 A4	3375 E6	3563 E1	3716 G7	3779 H2	4907 G5	7352 F8	
2125 C3	2428 D5	2626 E7	3002 A4	3376 D6	3564 E2	3717 G6	3780 H2	4910 F3	7401 D3	
2126 C4	2429 D6	2627 D7	3003 B5	3377 E6	3565 D1	3719 G7	3781 H2	4911 G3	7403 D4	
2127 C4	2430 E5	2662 E7	3004 B5	3400 D5	3566 D2	3720 F7	3782 H2	5000 B3	7420 D5	
2128 C5	2431 E5	2665 C7	3005 B6	3401 D4	3567 D2	3721 F7	3783 H2	5001 B3	7503 F7	
2129 C4	2432 E5	2701 F9	3006 B6	3402 D4	3568 D2	3722 G8	3784 G1	5002 B4	7504 F7	
2130 C4	2433 D6	2702 F9	3007 B6	3403 E3	3569 D2	3723 E8	3785 H2	5003 B5	7505 F6	
2131 C3	2434 D5	2706 F9	3008 A6	3404 D4	3570 E2	3724 C6	3786 G3	5004 B5	7506 F7	
2132 C1	2435 D5	2707 H8	3009 A6	3405 E3	3571 D2	3725 G3	3787 G2	5103 C3	7507 E1	
2133 B1	2437 E5	2708 F9	3100 C5	3406 D3	3572 D2	3726 G9	3901 G6	5104 B3	7508 D1	
2134 C4	2438 D5	2710 F8	3101 C5	3408 D2	3573 F7	3727 F3	3902 G6	5105 C2	7509 E2	
2135 B2	2440 D3	2711 H9	3102 C5	3420 E4	3574 E4	3728 G9	3903 G6	5106 C5	7510 F2	
2136 B2	2527 E1	2715 G7	3103 C5	3421 E5	3575 E2	3729 G9	3904 G6	5107 B6	7511 G2	
2137 B2	2528 F1	2716 D8	3104 C5	3422 D5	3576 D1	3730 H8	3905 G3	5401 D3	7512 E1	



3906 G3	5701 C8	7513 F7
3907 C7	5905 F5	7514 E2
3908 C7	5909 G5	7515 E2
3909 E3	6100 C5	7516 D2
3910 A7	6102 C5	7581 G5
3912 B2	6420 E6	7601 D7
3913 F3	6430 D6	7662 D7
3914 G5	6502 E7	7663 D7
3915 F3	6581 F5	7664 E8
3916 E4	6582 F5	7701 F9
3917 G3	6601 D8	7706 G9
3918 G3	6704 G7	7710 H8
3919 B7	6705 D8	7711 G9
3920 F5	6706 D8	7712 G9
3924 G3	6708 G4	7713 G7
3928 B7	6710 G9	7714 E8
3929 C7	6711 F8	7715 F7
3930 B7	6712 C6	7716 F7
3931 G5	6713 D5	7717 F6
3932 G4	6714 F9	7718 G7
3934 E4	6715 F9	7719 G8
3935 G4	6716 G9	7720 G8
3936 B7	6717 A7	7721 E5
3937 C7	6718 F3	7722 F3
3938 C6	6719 G8	7723 F3
3939 C6	6720 G8	7724 D6
3940 B6	6721 F8	7760 G2
3941 B6	6722 G7	7761 G2
3943 B6	6723 G7	7762 G2
3944 C6	6724 E3	7763 G1
3951 F3	6726 E8	7764 G2
3958 F5	6761 C7	7765 H3
4100 D2	6762 F3	7768 G2
4101 D1	6904 C6	7769 H2
4102 C4	6905 H3	7770 H2
4103 C5	6907 B7	7771 H2
4351 F9	6908 B7	7906 H6
4401 D4	6909 C7	7907 C6
4701 B8	6920 B2	7908 B6
4702 C8	6921 B2	7909 B6
4703 D9	6922 B2	7910 B6
4704 C8	7102 C4	7911 F4
4705 B8	7103 C3	7912 E3
4706 B8	7104 C2	7915 F3
4707 E8	7105 B5	
4902 G5	7350 C9	
4906 E5	7351 D9	
4907 G5	7352 F8	
4910 F3	7401 D3	
4911 G3	7403 D4	
5000 B3	7420 D5	
5001 B3	7503 F7	
5002 B4	7504 F7	
5003 B5	7505 F6	
5004 B5	7506 F7	
5103 C3	7507 E1	
5104 B3	7508 D1	
5105 C2	7509 E2	
5106 C5	7510 F2	
5107 B6	7511 G2	
5401 D3	7512 E1	

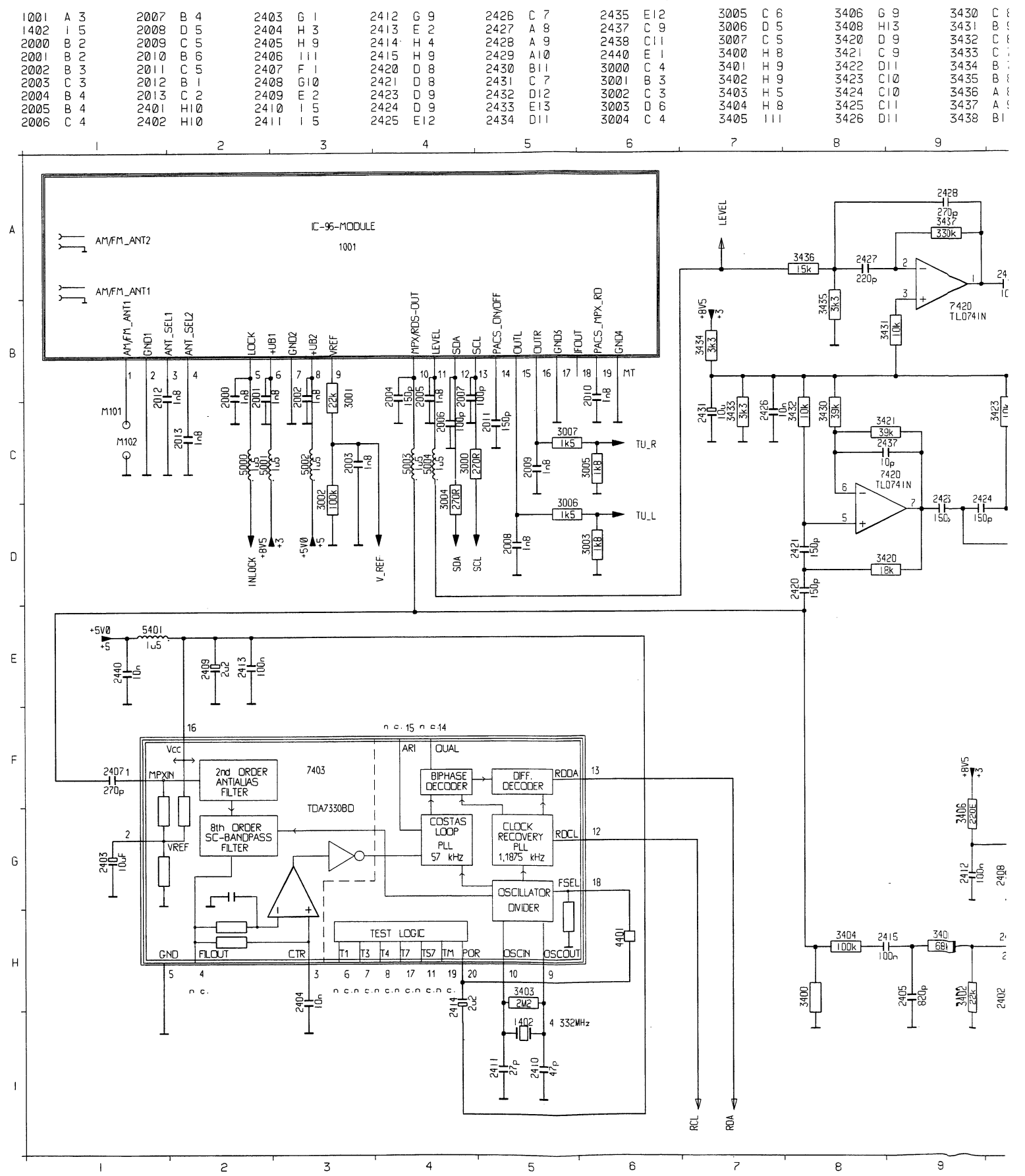


INTERCONNECTION TABLE

Terminal	Pages	Terminal	Pages	Terminal	Pages
A/D_EXP_1	20,22	FSDA	20,21,23b	reset654	20,21
A/D_EXP_2	20,22	FSDA1	21,23b	RHEOSTAT	20,22
A/D_EXP_3	20,22	GALA_PULS	20,23b	RL	18,19
A/D_EXP_OUT	20,22	IGN_KEY	23a,23b	RL+	19,23b
BLINK_LED	21,22	IGN_KEY_LED	22,23a	RL-	19,23b
CAN_HIGH	21,23b	IGN_KEY_UC	20,23a	ROGER BEEP	18,20
CAN_LOW	21,23b	ILL_IN	20,22	ROT_SW_A	20,22
CASS_L	17,21	INLOCK	16b,20	ROT_SW_B	20,22
CASS_R	17,21	KEYMATRIX_A	20,22	RR	18,19
CD_L	21,23b	KEYMATRIX_B	20,22	RR+	19,23b
CD_MRQ	20,21	KEYMATRIX_C	20,22	RR-	19,23b
CD_R	21,23b	KEYMATRIX_D	20,22	SCL	16b,18,20,21
CODE_ACC	20,23a	KEYMATRIX_E	20,22	SDA	16b,18,20,21
DIAGNOSE	23a,23b	KEYMATRIX_F	20,22	SENSE_ANT	22,23a
DIAGNOSTIC_1	20,23b	KEYMATRIX_G	20,22	SENSE_UB	20,23a
DIAGNOSTIC_2	20,23b	KEYMATRIX_H	20,22	SKIP	17,20
DOLBY_ON/OFF	17,21	LEVEL	16b,20	SOLENOID	17,20
EXT_ILL	22,23b	ME/FE_SW	17,21	STEER_WHEEL	20,23b
EXTNF_L	18,21	MOTOR_ON/OFF	17,20	SWITCH_7V	20,23a
EXTNF_R	18,21	MSS	17,20	TEL_IN	18,23b
FL	18,19	MULTIPATH	16b,22	TEL_MUTE	20,23a
FL+	19,23b	MUTE	19,20	TEL_MUTE_CON	23a,23b
FL-	19,23b	MUTE_SW	17,20	TERM	19,22
FMRQ	20,21,23b	NOISE	16b,20	TIME_OUT	20,23a
FMRQ1	21,23b	ON_OFF	20,23a	TRACK_SW	17,20
FR	18,19	PAUSE	16b,20	TU_L	16b,18
FR+	19,23b	PLAY_SW	17,20,23a	TU_R	16b,18
FR-	19,23b	RCL	16b,20	V_LOW	20,23a
FSCL	20,21,23b	RDA	16b,20	V_REF	16b,20
FSCL1	21,23b	RESET	20,23a	VSC_ON/OFF_SW	20,22,23a

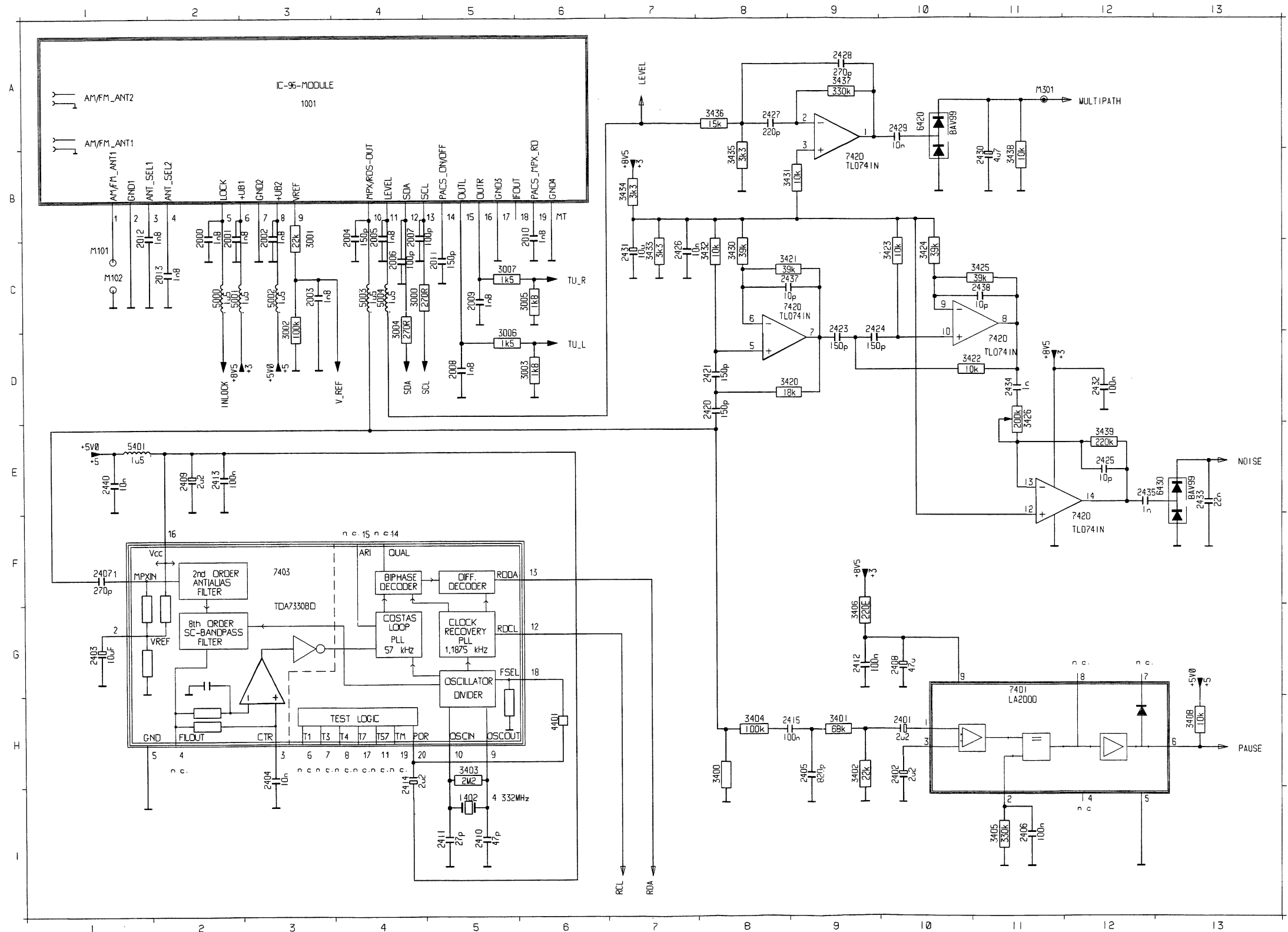
+1 (14V4)	23a,23b
+2 (14V4)	19,22,23a
+2c (14V4)	23a,23b
+3 (8,5V)	16b,17,18,19,21,23a
+3d (8,5V)	18,21
+4 (5V)	17,20,21,22,23a,23b
+5 (5V)	16b,17,19,20,21,22,23a,23b
+7 (5V)	20
+10 (14V4)	17,19,23a

TUNER, RDS



TUNER, RDS

2001	A 3	2007	B 4	2403	G 1	2412	G 9	2426	C 7	2435	E12	3005	C 6	3406	G 9	3430	C 8	3439	E12	6430	E12	M301	A11
1402	1 5	2008	D 4	2404	H 3	2413	E 2	2427	A 8	2437	C 9	3006	D 5	3408	H 3	3431	B 9	4401	H 6	7401	G11		
2000	B 5	2009	C 5	2405	H 9	2414	H 4	2428	A 9	2438	C11	3007	C 5	3420	D 9	3432	C 8	5000	C 2	7403	F 3		
2001	B 5	2010	B 6	2406	I 1	2415	H 9	2429	A10	2440	E 1	3400	H 8	3421	C 9	3433	C 7	5001	C 2	7420	B 9		
2002	B 5	2011	C 5	2407	F 1	2420	D 8	2430	B11	3000	C 4	3401	H 9	3422	D11	3434	B 7	5002	C 3	7420	C 8		
2003	C 5	2012	B 1	2408	G10	2421	D 9	2431	C 7	3001	B 3	3402	H 9	3423	C10	3435	B 8	5003	C 4	7420	D11		
2004	B 4	2013	C 2	2409	E12	2423	D 9	2432	D12	3002	C 3	3403	H 5	3424	C10	3436	A 8	5004	C 4	7420	F12		
2005	B 4	2401	H10	2410	I 5	2424	D 9	2433	E13	3003	D 6	3404	H 8	3425	C11	3437	A 9	5401	E 1	M102	C 1		
2006	C 4	2402	H10	2411	I 5	2425	E12	2434	D11	3004	C 4	3405	I 1	3426	D11	3438	B11	6420	A10	M102	C 1		



Tuner IC 96

- 1: 0 V
- 2: Gnd
- 3: 0 V
- 4: 0 V
- 5: 5,0 V
- 6: 8,5 V
- 7: Gnd
- 8: 5,0 V
- 9: 5,0 V
- 10: 3,0 V (FM) / 0 V (AM)
- 11: 2,0 V - 6,0 V
- 12: SDA
- 13: SOL
- 14: 1,0 V (FM) / 2,7 V (AM)
- 15: 3,3 V
- 16: 3,3 V
- 17: Gnd
- 18: 0 V
- 19: 4,7 V (FM) / 3,3 V (AM)

TDA 7330

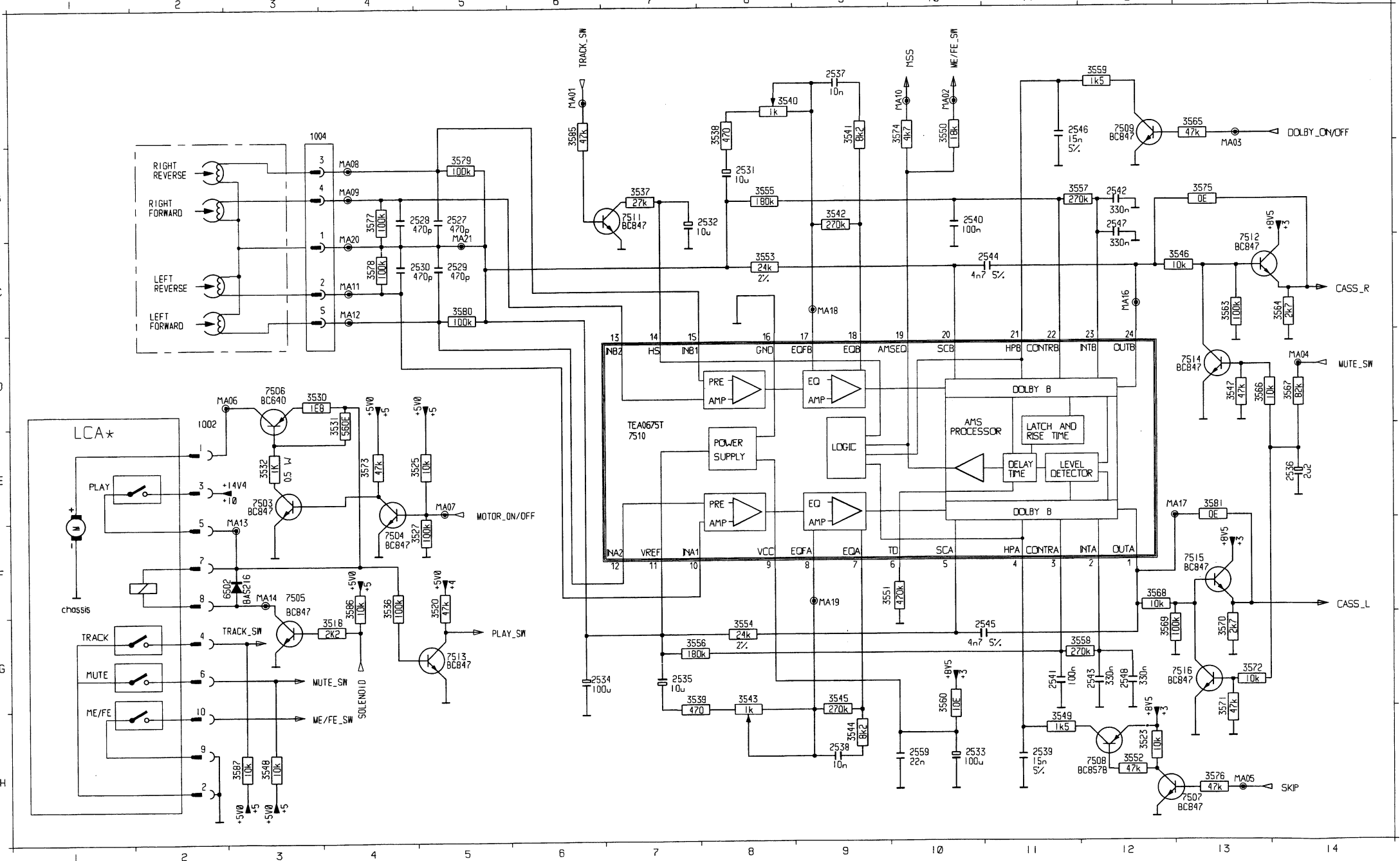
- 1: 2.7 V
- 2: 2.2 V
- 3: 1.4 V
- 4: nc
- 5: Gnd
- 6: nc
- 7: nc
- 8: nc
- 9: 4.332 MHz
- 10: 4.332 MHz
- 11: nc
- 12: RCL
- 13: RDA
- 14: nc
- 15: nc
- 16: 5.0 V
- 17: nc
- 18: 0 V
- 19: nc
- 20: 0 V

LA 2000

- | | | |
|----|-------|---------------|
| 1. | 2.0 V | |
| 2. | 7.3 V | / 0 V (Pause) |
| 3. | 2.0 V | |
| 4. | nc | |
| 5. | Gnd | |
| 6. | 5.0 V | / 0 V (Pause) |
| 7. | nc | |
| 8. | nc | |
| 9. | 7.4 V | |

TAPE DECK, DOLBY

1002	D 2	2534	G 6	2543	G12	3523	H12	3539	G 7	3548	H 3	3557	B12	3568	F12	3577	B 4	7503	E 3	7512	C13	MA05	H13	MA14	F 3
1004	A 3	2535	G 7	2544	C11	3525	F 5	3540	A 8	3549	H11	3558	G12	3569	G12	3578	C 4	7504	F 4	7513	G 5	MA06	D 2	MA16	C12
2527	B 5	2536	E14	2545	G11	3527	F 5	3541	A 9	3550	A10	3559	A12	3570	G13	3579	B 5	7505	F 3	7514	D13	MA07	E 5	MA17	E12
2528	B 5	2537	A 9	2546	A12	3530	D 3	3542	B 9	3551	F 9	3560	G10	3571	H13	3580	C 5	7506	D 3	7515	F13	MA08	B 4	MA18	C 9
2529	C 5	2538	H 9	2547	B12	3531	D 4	3543	B 8	3552	H12	3563	C13	3572	G13	3581	E13	7507	H13	7516	G13	MA09	B 4	MA19	C 9
2530	C 5	2539	H11	2548	G12	3532	F 3	3544	H 9	3553	C 8	3564	C14	3573	E 4	3585	A 6	7508	H12	MA01	A 6	MA10	A10	MA20	C 4
2531	B 8	2540	B10	2549	H10	3536	F 4	3545	G 9	3554	G 8	3565	A13	3574	A10	3586	F 4	7509	A12	MA02	A10	MA11	C 4	MA21	C 5
2532	B 8	2541	G11	3518	G 4	3537	B 7	3546	C13	3555	B 8	3566	D13	3575	B13	3587	H 3	7510	E 7	MA03	B13	MA12	C 4		
2533	H10	2542	B12	3520	F 5	3538	A 8	3547	D13	3556	G 7	3567	D14	3576	H13	6502	F 3	7511	B 7	MA04	D14	MA13	F 2		



TEA 0675T

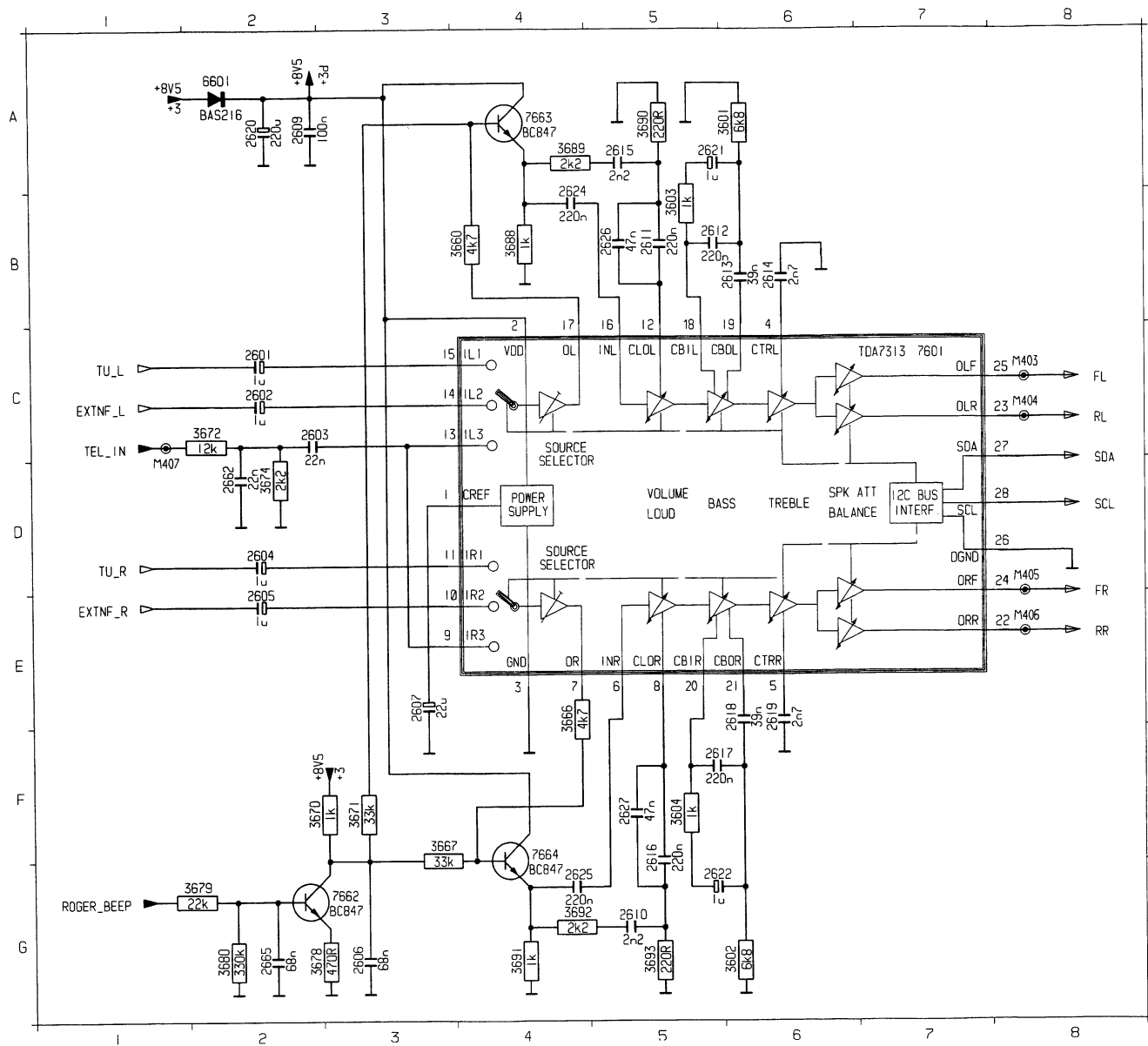
- 1: 4.0 V
- 2: 4.0 V
- 3: 4.0 V
- 4: 4.0 V
- 5: 4.0 V
- 6: 6.3 V (NOR) / 2.6 V (REV)
- 7: 4.0 V
- 8: 4.0 V
- 9: 8.2 V
- 10: 4.0 V
- 11: 4.0 V
- 12: 4.0 V
- 13: 4.0 V
- 14: 6.3 V
- 15: 4.0 V
- 16: Gnd
- 17: 4.0 V
- 18: 4.0 V
- 19: 4.6 V / 0 V (Pause)
- 20: 4.0 V
- 21: 4.0 V (DD On) / 0.5 V (DD On)
- 22: 4.0 V
- 23: 4.0 V
- 24: 4.0 V

CON 1082 (LCA)

- 1: 14.0 V / 0 V (Motor Off)
- 2: Gnd
- 3: 14.4 V
- 4: 0 V
- 5: 14.4 V / 0 V (Eject)
- 6: 0 V / 4.5 V (Mute)
- 7: 14.4 V / 0 V (Eject)
- 8: 0.3 V / 14.0 V (MSS)
- 9: Gnd
- 10: 0 V (FE) / 5.0 V (ME)

SOFAC

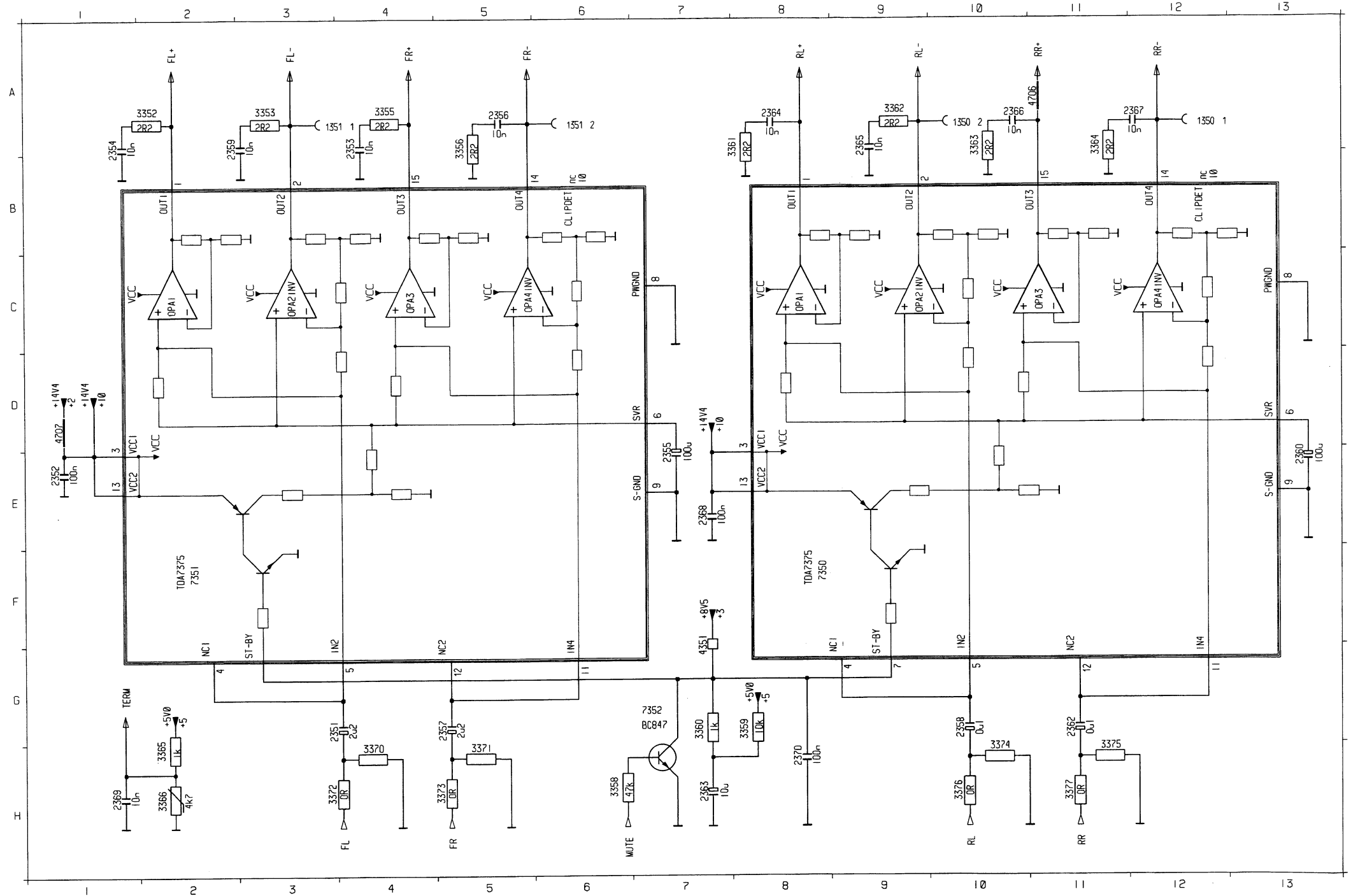
2601	C 2	2611	B 5	2620	A 2	3601	A 6	3672	C 2	3692	G 4	M405	D 8
2602	C 2	2612	B 5	2621	A 5	3602	G 6	3674	D 2	3693	G 5	M406	E 8
2603	C 2	2613	B 6	2622	G 5	3603	B 5	3678	G 2	6601	A 2	M407	D 1
2604	D 2	2614	B 6	2624	B 4	3604	F 5	3679	G 2	7601	C 7		
2605	E 2	2615	A 5	2625	B 4	3660	B 4	3680	G 2	7662	G 3		
2606	G 3	2616	F 5	2626	B 5	3666	F 4	3688	B 4	7663	A 4		
2607	F 3	2617	F 5	2627	F 5	3667	F 3	3689	A 4	7664	F 4		
2609	A 2	2618	F 5	2662	D 2	3670	F 2	3690	A 5	M403	C 8		
2610	G 5	2619	E 6	2665	G 2	3671	F 3	3691	G 4	M404	C 8		



TDA 7313	
1	3.8 V
2	7.7 V
3	Gnd
4	3.8 V
5	3.8 V
6	3.8 V
7	3.8 V
8	3.8 V
9	3.8 V
10	3.8 V
11	3.8 V
12	3.8 V
13	3.8 V
14	3.8 V
15	3.8 V
16	3.8 V
17	3.8 V
18	3.8 V
19	3.8 V
20	3.8 V
21	3.8 V
22	3.8 V
23	3.8 V
24	3.8 V
25	3.8 V
26	Gnd
27	SDA
28	SCL

POWER AMPLIFIER

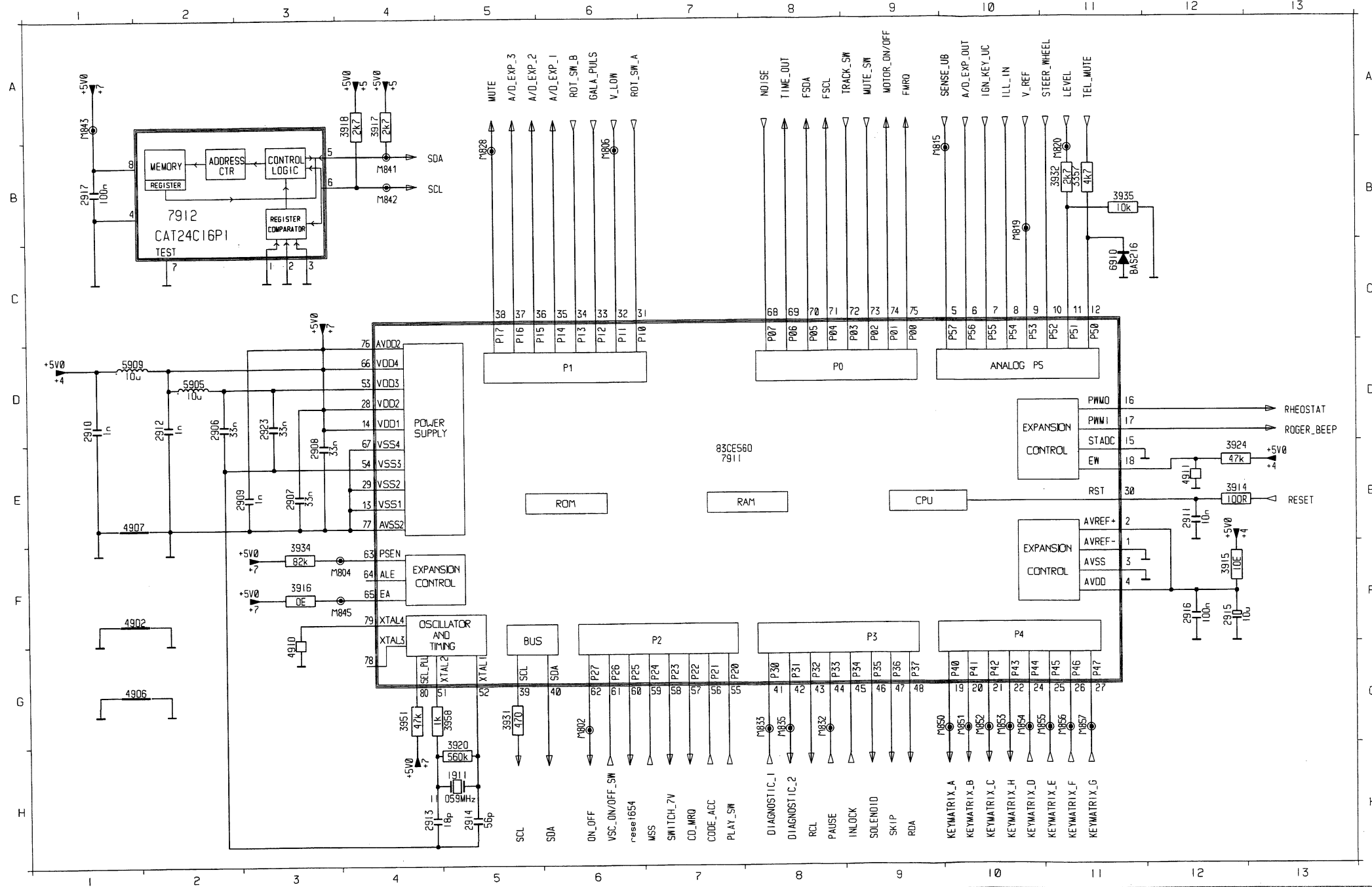
1350 A12	2352 E 1	2357 G 5	2363 H 7	2368 E 7	3355 A 4	3361 A 8	3366 H 2	3374 H10	4706 A11
1350 A10	2353 A 4	2358 G10	2364 A 8	2369 H 1	3356 A 5	3362 A 9	3370 H 4	3375 H11	4707 D 1
1351 A 3	2354 A 1	2359 A 2	2365 A 9	2370 H 8	3358 H 6	3363 A10	3371 H 5	3376 H10	7350 F 8
1351 A 6	2355 E 7	2360 E13	2366 A10	3352 A 2	3359 G 8	3364 A11	3372 H 6	3377 H11	7351 F 2
2351 G 3	2356 A 5	2362 G11	2367 A12	3353 A 3	3360 G 7	3365 H 2	3373 H 5	4351 F 7	7352 G 2



TBA 7375	
1	7.0V
2	7.0V
3	14.4V
4	0.7V
5	0.7V
6	0.7V
7	4.5V
8	Grd
9	Grd
10	nc
11	0.7V
12	0.7V
13	14.4V
14	7.0V
15	7.0V

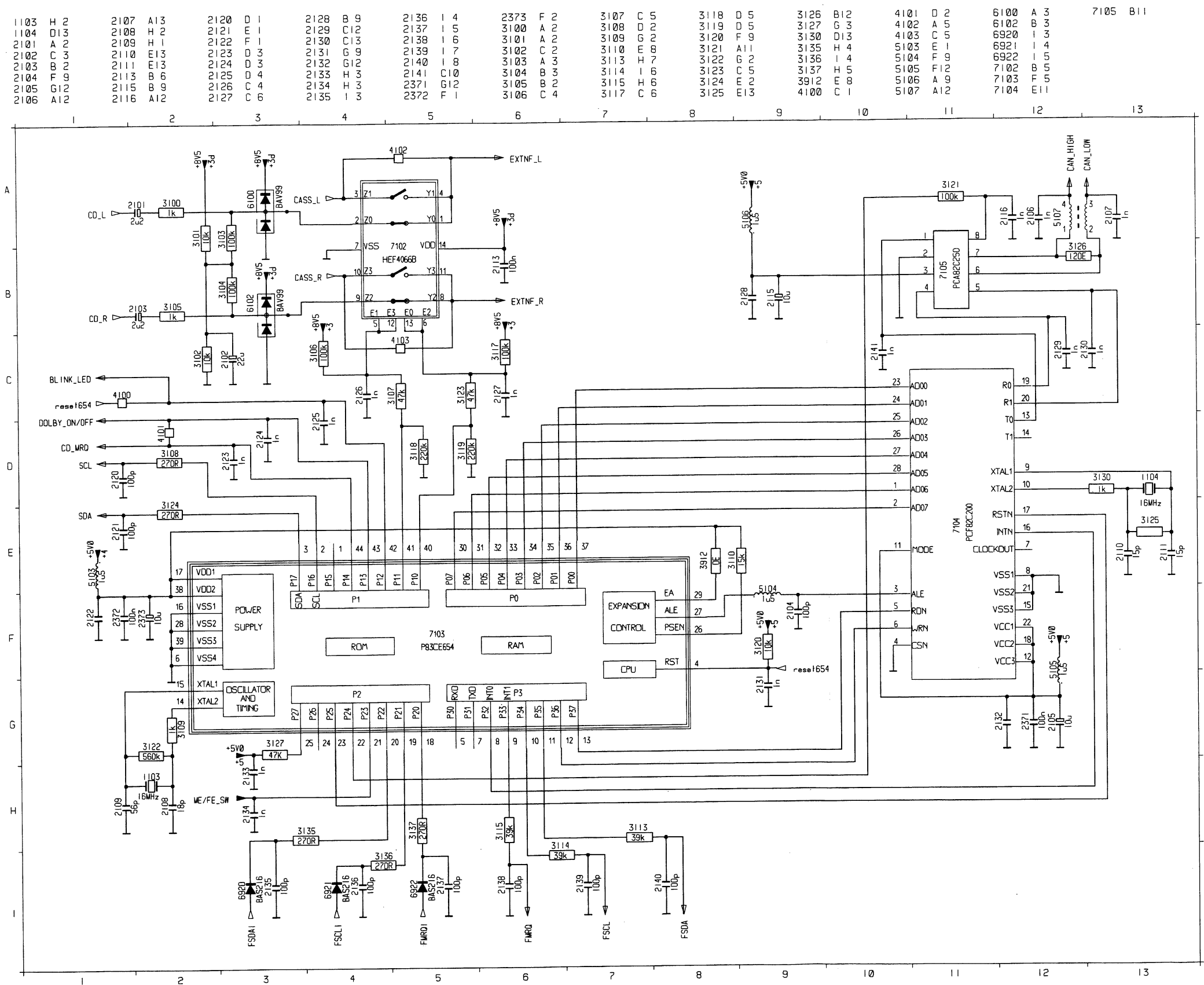
MASTER μ -PROCESSOR

1911	H 5	2910	D 1	2915	F12	3914	E12	3920	H 5	3935	B11	4907	E 1	6910	C11	M806	B 6	M832	G 8	M843	A 1	M853	G10
2906	D 2	2911	E12	2916	F12	3915	F12	3924	E12	3951	G 4	4910	F 3	7911	E 7	M815	B 9	M833	G 8	M845	F 3	M854	G10
2907	E 3	2912	D 2	2917	B 1	3916	F 3	3931	G 5	3958	G 5	4911	E12	7912	B 2	M819	C10	M835	G 8	M849	G 9	M855	G10
2908	E 3	2913	H 4	2923	D 3	3917	F 4	3932	B11	4902	F 1	5905	D 2	M802	G 6	M820	B11	M841	B 4	M851	G10	M856	G11
2909	E 3	2914	H 5	3357	B11	3918	A 4	3934	F 3	4906	G 1	5909	D 1	M804	F 3	M828	B 5	M842	B 4	M852	G10	M857	G11

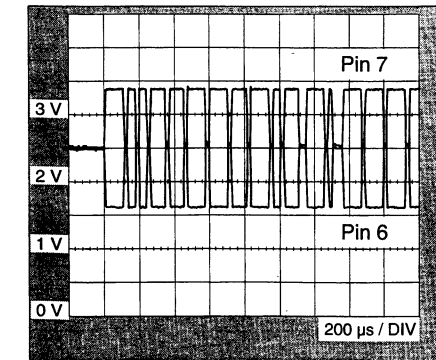


83: CE550	12: 3.0 V (TS Off)	24: 5.0 V	36: Data	48: R5A	60: 0 V	72: 0 V (NOR) / 2.8 V (REV)	24 C16
84: CE550	13: 3.0 V	25: 3.0 V	37: Data	49: 0 V	61: 5.0 V	73: 0 V / 4.5 V (Cass Mute)	1: Gnd
85: CE550	14: 3.0 V	26: 5.0 V	38: 0 V	50: 0 V	62: 0 V / 4.3 V (Sel Off)	74: 0.7 V / 0 V (Motor On)	2: Gnd
86: CE550	15: 3.0 V	27: 3.0 V	39: SCL	51: 11 V	63: 3.0 V	75: Data	3: Gnd
87: CE550	16: 3.0 V	28: 3.0 V	40: SDA	52: 11 V	64: 3.0 V	76: 5.0 V	4: Gnd
88: CE550	17: 3.0 V	29: 3.0 V	41: 0 V	53: 5 V	65: 3.0 V	77: Gnd	5: SDA
89: CE550	18: 3.0 V	30: 3.0 V	42: 0 V	54: Gnd	66: 5.0 V	78: 0 V	6: SCL
90: CE550	19: 3.0 V	31: 3.0 V	43: BCL	55: 0 V	67: 0 V	79: Gnd	7: Gnd
91: CE550	20: 3.0 V	32: 3.0 V	44: 5.0 V	56: 0 V	68: 0 V	80: 3.0 V	8: 5.0 V
92: CE550	21: 3.0 V	33: 3.0 V	45: 5.0 V	57: 0 V	69: 3.0 V		
93: CE550	22: 0 V	34: 0 V	46: 0 V	58: 0 V	70: 0 V		
94: CE550	23: 0 V	35: 0 V	47: 0 V	59: 0 V	71: 0 V		
95: CE550	24: Data			60: 0 V			

SLAVE μ-PROCESSOR, CAN-BUS INTERFACE



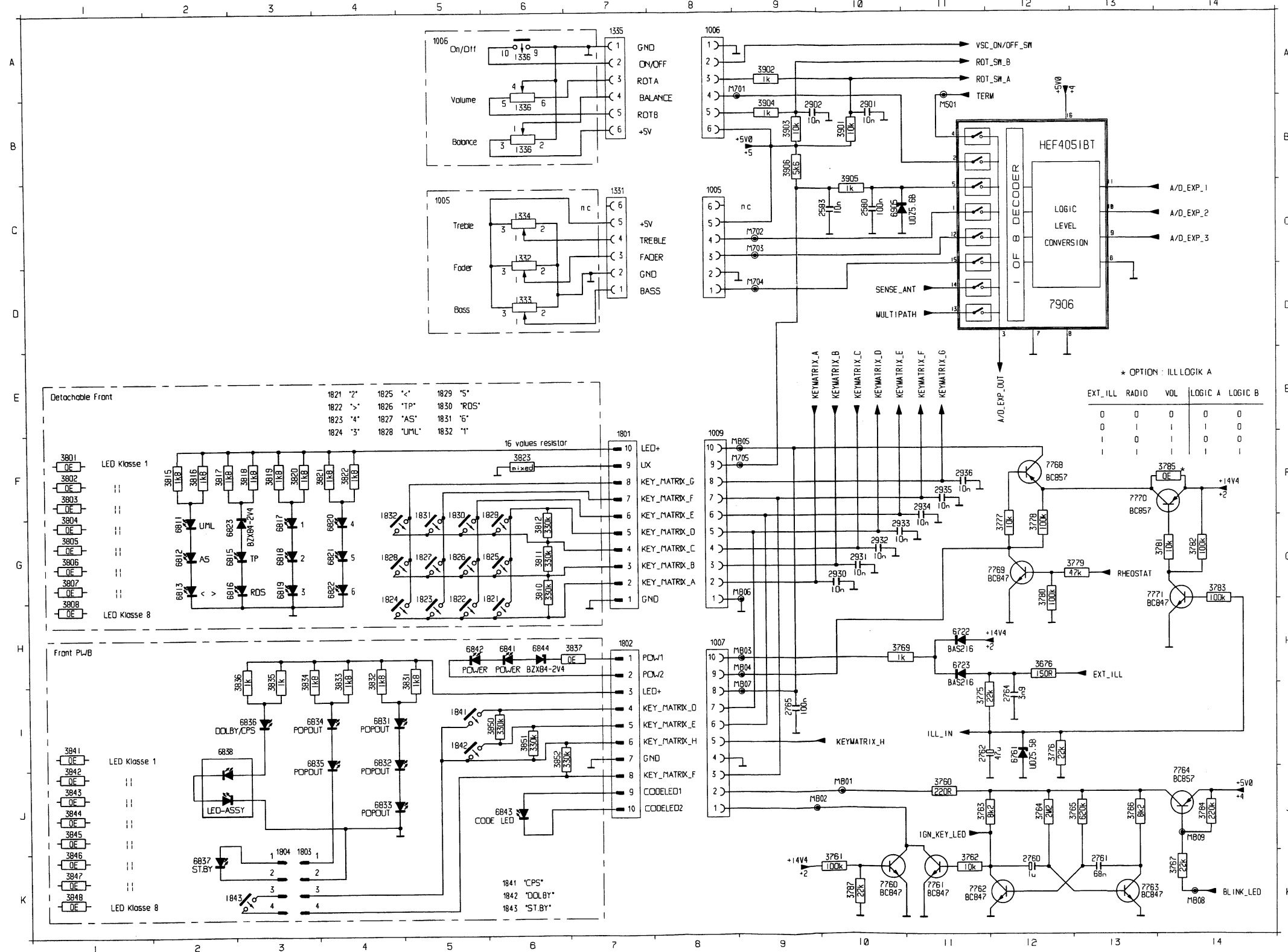
83 CE654	PCF82C200
1: nc	1: Data
2: SCL	2: Data
3: SDA	3: 1.5 V
4: 0 V	4: Gnd
5: 5.0 V (Reset)	5: Data
6: Gnd	6: Data
7: nc	7: nc
8: Data	8: Gnd
9: Data	9: 16 MHz
10: Data	10: 16 MHz
11: Data	11: 5.0 V
12: Data	12: 5.0 V
13: Data	13: Data
14: 16 MHz	14: nc
15: 16 MHz	15: Gnd
16: Gnd	16: Data
17: 5.0 V	17: 5.0 V
18: 5.0 V	18: 5.0 V
19: 5.0 V	19: 4.2 V
20: 5.0 V	20: 2.5 V
21: 0 V (FE)/ 5.0 V (ME)	21: Gnd
22: 0 V	22: 5.0 V
23: 5.0 V	23: Data
24: nc	24: Data
25: 5.0 V	25: Data
26: 5.0 V	26: Data
27: 1.5 V	27: Data
28: Gnd	28: Data
29: 5.0 V	
30: Data	PCA 82C250
31: Data	1: Data
32: Data	2: Gnd
33: Data	3: 5.0 V
34: Data	4: Data
35: Data	5: 2.5 V
36: Data	6: 2.5 V
37: Data	7: 2.5 V
38: 5.0 V	8: 2.5 V
39: Gnd	
40: 0 V	
41: 0 V	
42: 5.0 V	
43: 4.2 V	
44: Data	



PCA 82C250, Pin 6 / 7: CAN-Bus

FRONT

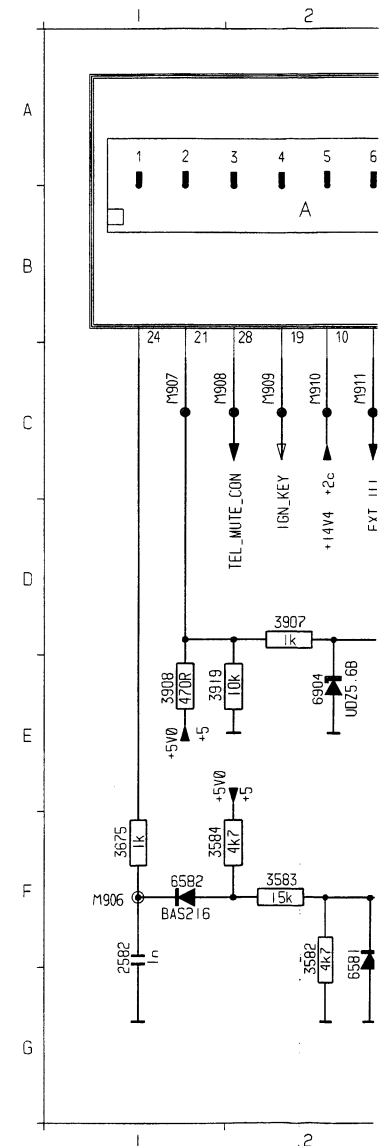
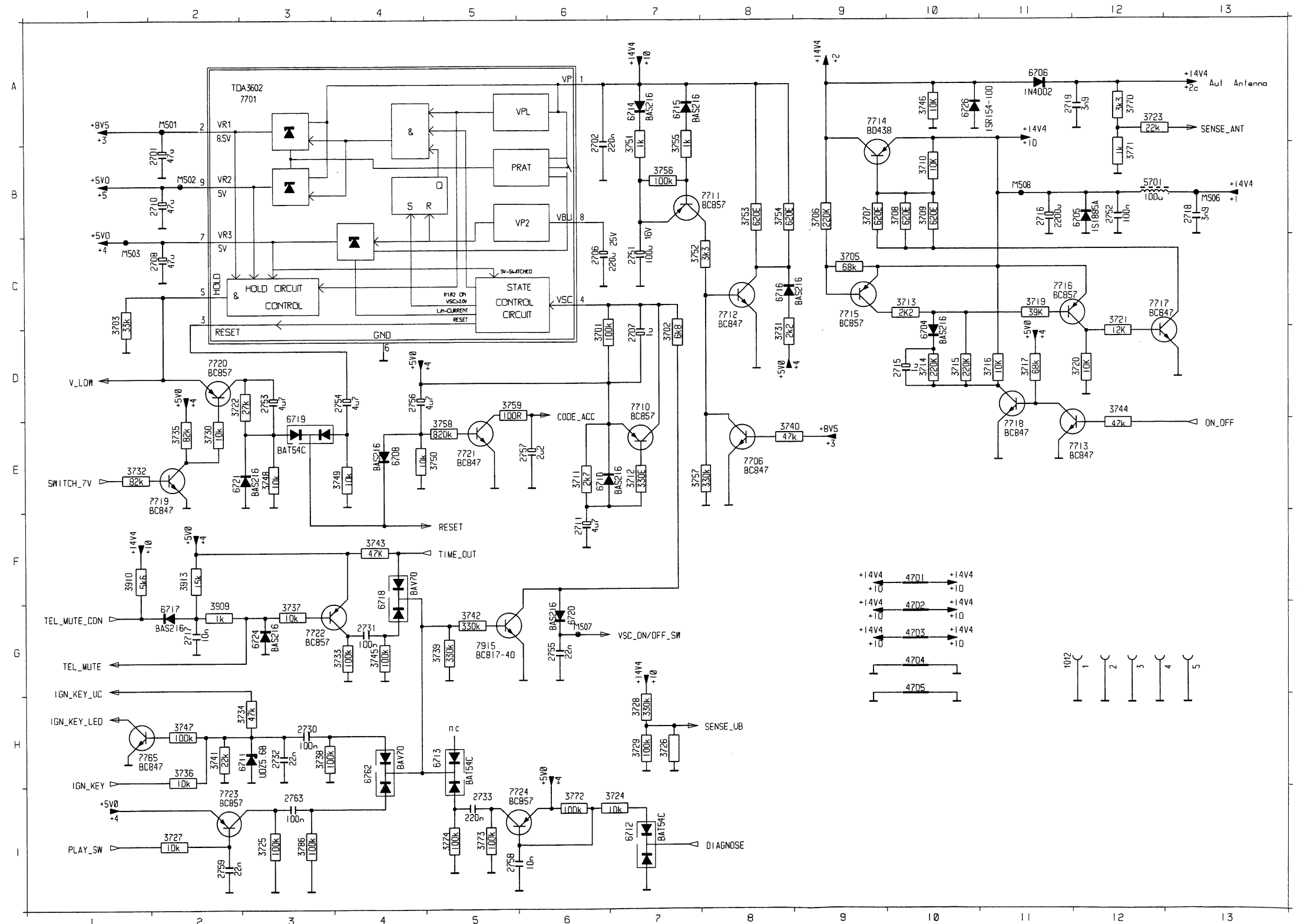
1005	C	8	1802	H	7	1831	F	5	2902	B	9	3764	J	12	3783	G	14	3811	G	6	3833	H	4	3850	I	6	6812	G	2	6833	J	4	7762	K	11	M705	F	8
1006	A	8	1803	J	3	1832	F	4	2930	G	10	3765	J	13	3784	J	14	3812	G	6	3834	H	3	3851	I	6	6813	G	2	6834	I	3	7763	K	13	MB01	J	10
1007	H	8	1804	J	3	1841	I	5	2931	G	10	3766	J	13	3785	F	14	3815	F	2	3835	H	3	3852	I	6	6815	G	2	6835	I	3	7764	J	14	MB02	J	9
1009	F	9	1821	G	6	1842	I	5	2932	G	10	3767	K	14	3787	K	10	3816	F	2	3836	H	3	3901	B	10	6816	G	2	6836	I	3	7768	F	12	MB03	H	8
1331	C	7	1822	G	5	1843	K	2	2933	G	10	3769	H	10	3801	F	1	3817	F	2	3837	H	7	3902	A	9	6817	G	3	6837	K	2	7769	G	11	MB04	H	8
1332	C	6	1823	G	5	2580	C	10	2934	F	11	3775	I	11	3802	F	1	3818	F	3	3841	I	1	3903	B	9	6818	G	3	6838	I	2	7770	F	13	MB05	F	8
1333	D	6	1824	G	4	2583	C	10	2935	F	11	3776	I	12	3803	F	1	3819	F	3	3842	J	1	3904	B	9	6819	G	3	6841	H	6	7771	G	13	MB06	G	8
1334	C	6	1825	G	6	2760	K	12	2936	F	11	3777	G	12	3804	G	1	3820	F	3	3843	J	1	3905	C	10	6820	G	4	6842	H	5	7906	D	12	MB07	I	8
1335	A	7	1826	G	5	2761	K	13	3676	H	12	3778	G	12	3805	G	1	3821	F	4	3844	J	1	3906	B	9	6821	G	4	6843	J	6	M501	B	11	MB08	K	14
1336	B	6	1827	G	5	2762	I	11	3760	J	11	3779	G	13	3806	G	1	3822	F	4	3845	J	1	6722	H	11	6822	G	4	6844	H	6	M701	A	8	MB09	J	14
1336	B	6	1828	G	4	2764	I	12	3761	K	10	3780	G	12	3807	G	1	3823	F	6	3846	K	1	6723	H	11	6823	G	2	6905	C	10	M702	C	9			
1336	A	6	1829	F	6	2765	I	9	3762	K	11	3781	G	14	3808	H	1	3831	H	5	3847	K	1	6761	I	12	6831	I	4	7760	K	10	M703	C	9			
1801	F	7	1830	F	5	2901	B	10	3763	J	11	3782	G	14	3810	G	6	3832	H	4	3848	K	1	6811	G	2	6832	I	4	7761	K	11	M704	D	9			



POWER SUPPLY, ON/OFF LOGIC

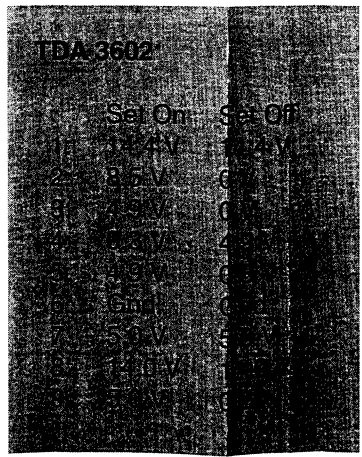
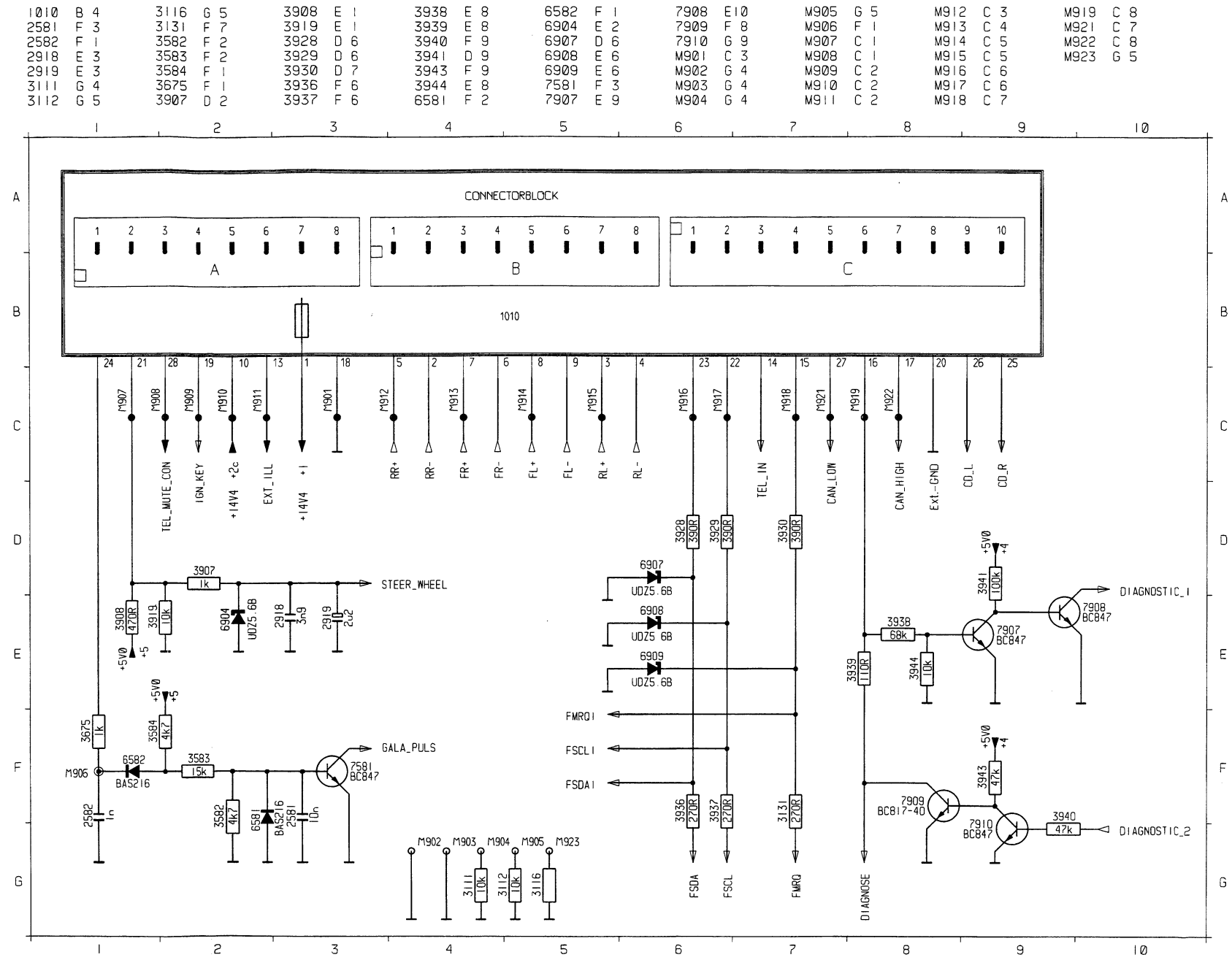
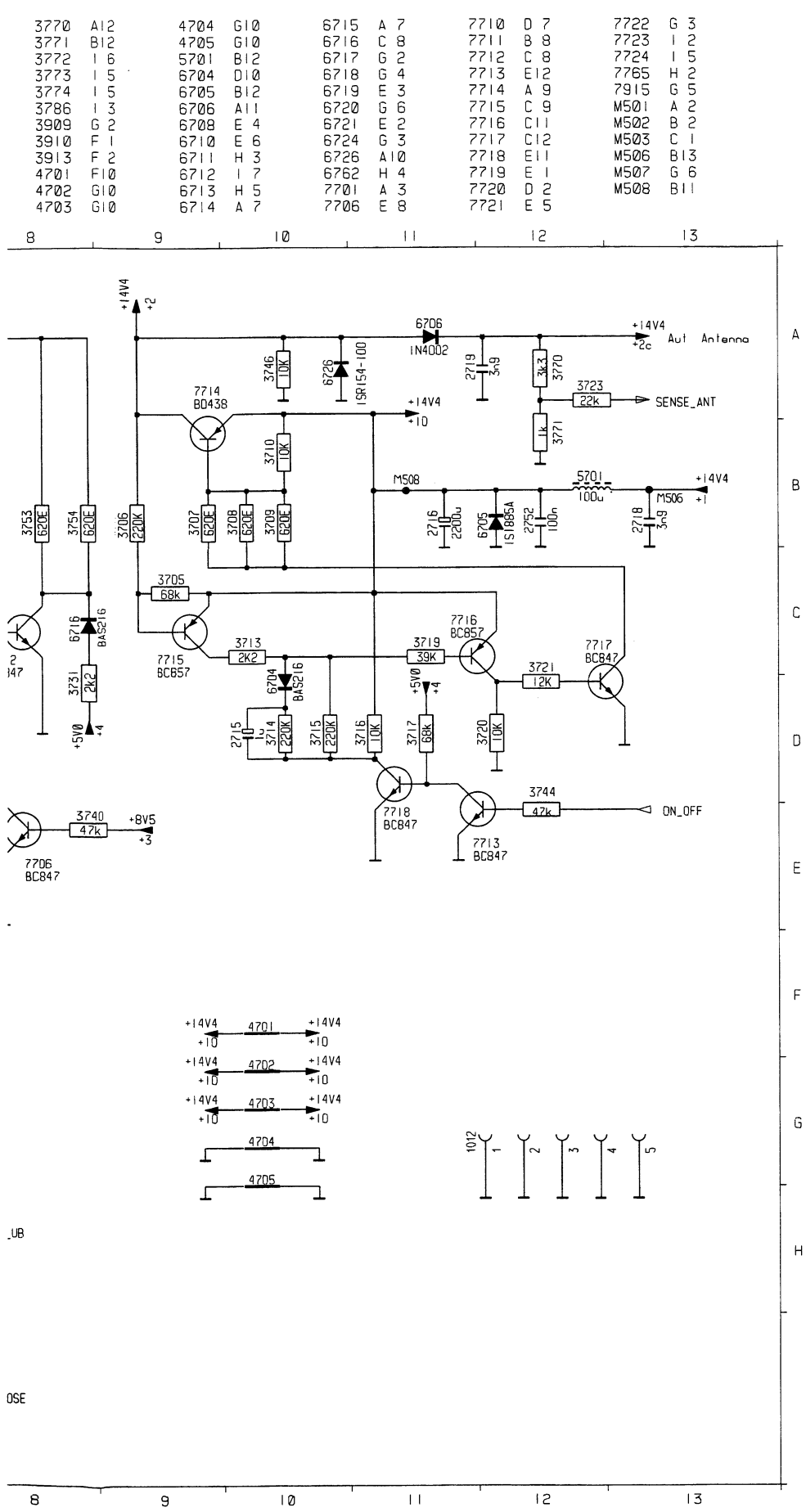
CONNECTOR BLOCK

2701	B 2	2730	H 3	2759	I 2	3712	E 7	3725	I 3	3737	G 3	3749	E 4	3771	B12	4705	G10	6716	C 8	7711	B 8	7723	I 2
2702	A 6	2731	G 4	2763	I 3	3713	C10	3726	H 7	3738	H 3	3750	E 5	3772	I 6	4701	B12	6717	G 2	7712	C 8	7724	I 5
2706	C 6	2732	H 3	3701	D 6	3714	D10	3727	I 2	3739	G 5	3751	A 7	3773	I 5	6704	D10	6718	G 4	7713	E12	7765	H 2
2707	D 7	2733	I 5	3702	D 7	3715	D10	3728	H 7	3740	E 8	3752	C 7	3774	I 5	6705	B12	6719	E 3	7714	A 9	7915	G 5
2708	C 2	2751	C 7	3703	C 1	3716	D11	3729	H 7	3741	H 2	3753	B 8	3786	I 3	6706	A11	6720	G 6	7715	C 9	M501	A 2
2710	B 2	2752	B12	3705	C 9	3717	D11	3730	E 2	3742	G 5	3754	B 8	3909	G 2	6708	E 4	6721	E 2	7716	C11	M502	B 2
2711	F 6	2753	D 3	3706	B 9	3719	C11	3731	D 8	3743	F 4	3755	A 7	3910	F 1	6710	E 6	6724	G 3	7717	C12	M503	C 1
2715	D10	2754	D 4	3707	B 9	3720	D12	3732	E 1	3744	D12	3756	B 7	3913	F 2	6711	H 3	6726	A10	7718	E11	M506	B13
2716	B11	2755	G 6	3708	B10	3721	C12	3733	G 4	3745	G 4	3757	E 7	4701	F10	6712	I 7	6762	H 4	7719	E 1	M507	G 6
2717	G 2	2756	D 4	3709	B10	3722	D 2	3734	H 3	3746	A10	3758	E 5	4702	G10	6713	H 5	7701	A 3	7720	D 2	M508	B11
2718	B13	2757	E 6	3710	B10	3723	A12	3735	E 2	3747	H 2	3759	D 5	4703	G10	6714	A 7	7706	E 8	7721	E 5		



	Set On	Set Off
1	14.4 V	14.4 V
2	8.5 V	0 V
3	4.9 V	0 V
4	0.3 V	4.9 V
5	4.9 V	0.3 V
6	Grd	Grd
7	5.0 V	5.0 V
8	14.0 V	14.0 V
9	5.0 V	0.2 V

CONNECTOR BLOCK



Miscellaneous			
1001	4822 210 10729	TUNER	TUNER IC 96
1002	4822 265 10808	CONNECTOR	CON BM V 10P M 1.27
1004	4822 267 40818	CONNECTOR	CON BM V 5P F 2.54
1007	4822 265 41215	CONNECTOR	CON BM V 10P F 1.00
1009	4822 265 10599	CONNECTOR	-INNOVAN-
1332	4822 100 11752	RESISTOR, VAR	POT FADER
1333	4822 100 11752	RESISTOR, VAR	POT BASS
1334	4822 100 11752	RESISTOR, VAR	POT TREBLE
1336	4822 100 12255	ENC+20K+SWI	POT VOLUME
1010	4822 265 10814	CONNECTOR	CONN. BLOCK ASSY
1103	4822 242 81961	CRYSTAL	16.0 MHZ
1104	4822 242 81961	CRYSTAL	16.0 MHZ
1402	4822 242 72195	CRYSTAL	4.332 MHz
1911	4822 242 81646	CRYSTAL	11.059 MHZ
Capacitors			
2004	5322 122 33538	CERAMIC SMD	150pF 2%NP0 63V
2006	5322 122 32531	CERAMIC SMD	100pF 5%NP0 50V
2007	5322 122 32531	CERAMIC SMD	100pF 5%NP0 50V
2011	5322 122 33538	CERAMIC SMD	150pF 2%NP0 63V
2101	4822 124 23504	ELEC. ALU	2.2µF 20% 50V
2102	4822 124 23279	ELEC. ALU	22µF 20% 16V
2103	4822 124 23504	ELEC. ALU	2.2µF20% 50V
2104	5322 122 32531	CERAMIC SMD	100pF 5%NP0 50V
2105	4822 124 41017	ELEC. ALU	10µF 16V
2108	4822 126 13689	CERAMIC SMD	18pF 1% NP0 63V
2109	4822 126 13693	CERAMIC SMD	56pF 1% NP0 63V
2110	5322 122 33869	CERAMIC SMD	15pF 5%NP0 63V
2111	5322 122 33869	CERAMIC SMD	15pF 5%NP0 63V
2113	4822 126 13848	CERAMIC SMD	100nF 10% 16V
2115	4822 124 41017	ELEC. ALU	10µF 16V
2120	5322 122 32531	CERAMIC SMD	100pF 5%NP0 50V
2121	5322 122 32531	CERAMIC SMD	100pF 5%NP0 50V
2122	5322 122 32531	CERAMIC SMD	100pF 5%NP0 50V
2128	4822 126 13848	CERAMIC SMD	100nF 10% 16V
2135	5322 122 32531	CERAMIC SMD	100pF 5%NP0 50V
2136	5322 122 32531	CERAMIC SMD	100pF 5%NP0 50V
2137	5322 122 32531	CERAMIC SMD	100pF 5%NP0 50V
2138	5322 122 32531	CERAMIC SMD	100pF 5%NP0 50V
2139	5322 122 32531	CERAMIC SMD	100pF 5%NP0 50V
2140	5322 122 32531	CERAMIC SMD	100pF 5%NP0 50V
2351	4822 124 23504	ELEC. ALU	2.2µF 20% 50V
2352	4822 126 13848	CERAMIC SMD	100nF 10% 16V
2355	4822 124 81195	ELEC. ALU	100µF 20% 16V
2357	4822 124 23504	ELEC. ALU	2.2µF 20% 50V
2358	4822 124 23262	ELEC. ALU	0.1µF 50V
2360	4822 124 81195	ELEC. ALU	100µF 20% 16V
2362	4822 124 23262	ELEC. ALU	0.1µF 50V
2363	4822 124 41017	ELEC. ALU	10µF 16V
2368	4822 126 13848	CERAMIC SMD	100nF 10% 16V
2370	4822 126 13848	CERAMIC SMD	100nF 10% 16V
2371	4822 126 13848	CERAMIC SMD	100nF 10% 16V
2372	4822 126 13848	CERAMIC SMD	100nF 10% 16V
2373	4822 124 41017	ELEC. ALU	10µF 16V
2401	4822 124 23504	ELEC. ALU	2.2µF 20% 50V
2402	4822 124 23504	ELEC. ALU	2.2µF 20% 50V
2403	4822 124 41017	ELEC. ALU	10µF 16V
2406	4822 126 13848	CERAMIC SMD	100nF 10% 16V
2408	4822 124 22646	ELEC. ALU	47µF 20% 16V
2409	4822 124 23504	ELEC. ALU	2.2µF 20% 50V
2410	5322 122 32452	CERAMIC SMD	47pF 5%NP0 63V
2411	5322 122 31946	CERAMIC SMD	27pF 5%NP0 63V
2412	4822 126 13848	CERAMIC SMD	100nF 10% 16V
2413	4822 126 13848	CERAMIC SMD	100nF 10% 16V
2414	4822 124 23504	ELEC. ALU	2.2µF 20% 50V
2415	4822 126 13848	CERAMIC SMD	100nF 10% 16V
2420	5322 122 33538	CERAMIC SMD	150pF 2%NP0 63V
2421	5322 122 33538	CERAMIC SMD	150pF 2%NP0 63V
2423	5322 122 33538	CERAMIC SMD	150pF 2%NP0 63V
2424	5322 122 33538	CERAMIC SMD	150pF 2%NP0 63V
2425	5322 122 32448	CERAMIC SMD	10pF 5% 50V
2427	4822 122 33575	CERAMIC SMD	220pF 5%NPO 50V
2430	4822 124 80765	ELEC. ALU	4.7µF 20% 35V

2431	4822 124 41017	ELEC. ALU	10µF 16V
2432	4822 126 13848	CERAMIC SMD	100nF 10% 16V
2437	5322 122 32448	CERAMIC SMD	10pF 5% 50V
2438	5322 122 32448	CERAMIC SMD	10pF 5% 50V
2527	5322 122 32268	CERAMIC SMD	470pF 10% 50V
2528	5322 122 32268	CERAMIC SMD	470pF 10% 50V
2529	5322 122 32268	CERAMIC SMD	470pF 10% 50V
2530	5322 122 32268	CERAMIC SMD	470pF 10% 50V
2531	4822 124 41017	ELEC. ALU	10µF 16V
2532	4822 124 41017	ELEC. ALU	10µF 16V
2533	4822 124 80453	ELEC. ALU	100µF 20% 10V
2534	4822 124 80453	ELEC. ALU	100µF 20% 10V
2535	4822 124 41017	ELEC. ALU	10µF 16V
2536	4822 124 23504	ELEC. ALU	2.2µF 20% 50V
2539	4822 126 13188	CERAMIC SMD	15nF 5% X7R 63V
2540	4822 126 13848	CERAMIC SMD	100nF 10% 16V
2541	4822 126 13848	CERAMIC SMD	100nF 10% 16V
2546	4822 126 13188	CERAMIC SMD	15nF 5% X7R 63V
2580	4822 126 13848	CERAMIC SMD	100nF 10% 16V
2601	4822 124 23282	ELEC. ALU	1µF 20% 50V
2602	4822 124 23282	ELEC. ALU	1µF 20% 50V
2604	4822 124 23282	ELEC. ALU	1µF 20% 50V
2605	4822 124 23282	ELEC. ALU	1µF 20% 50V
2606	4822 126 13851	CERAMIC SMD	68nF 10% 16V
2607	4822 124 23279	ELEC. ALU	22µF 20% 16V
2609	4822 126 13848	CERAMIC SMD	100nF 10% 16V
2611	4822 126 13849	CERAMIC SMD	220nF 10% 16V
2612	4822 126 13849	CERAMIC SMD	220nF 10% 16V
2613	4822 126 13852	CERAMIC SMD	39nF 10% 25V
2616	4822 126 13849	CERAMIC SMD	220nF 10% 16V
2617	4822 126 13849	CERAMIC SMD	220nF 10% 16V
2618	4822 126 13852	CERAMIC SMD	39nF 10% 25V
2620	4822 124 23582	ELEC. ALU	220µF 10V
2621	4822 124 23282	ELEC. ALU	1µF 20% 50V
2622	4822 124 23282	ELEC. ALU	1µF 20% 50V
2624	4822 126 13849	CERAMIC SMD	220nF 10% 16V
2625	4822 126 13849	CERAMIC SMD	220nF 10% 16V
2626	4822 124 11884	ELEC. ALU	47nF 10% 0805 X7R
2627	4822 124 11884	ELEC. ALU	47nF 10% 0805 X7R
2665	4822 126 13851	CERAMIC SMD	68nF 10% 16V
2701	4822 124 80724	ELEC. ALU	47µF 20% 10V
2702	4822 126 13849	CERAMIC SMD	220nF 10% 16V
2706	4822 124 41097	ELEC. ALU	220µF 20% 16V
2707	4822 124 23282	ELEC. ALU	1µF 20% 50V
2708	4822 124 80724	ELEC. ALU	47µF 20% 10V
2710	4822 124 22646	ELEC. ALU	47µF 20% 16V
2711	4822 124 80727	ELEC. ALU	4.7µF 20% 25V
2715	4822 124 23282	ELEC. ALU	1µF 20% 50V
2716	4822 124 80769	ELEC. ALU	2200µF 20% 16V
2730	4822 126 13848	CERAMIC SMD	100nF 10% 16V
2731	4822 126 13848	CERAMIC SMD	100nF 10% 16V
2733	4822 126 13849	CERAMIC SMD	220nF 10% 16V
2751	4822 124 81195	ELEC. ALU	100µF 20% 16V
2752	4822 126 13848	CERAMIC SMD	100nF 10% 16V
2753	4822 124 80727	ELEC. ALU	4.7µF 20% 25V
2754	4822 124 80727	ELEC. ALU	4.7µF 20% 25V
2756	4822 124 80765	ELEC. ALU	4.7µF 20% 35V
2757	4822 124 23504	ELEC. ALU	2.2µF 20% 50V
2760	4822 124 23282	ELEC. ALU	1µF 20% 50V
2761	4822 126 13851	CERAMIC SMD	68nF 10% 16V
2762	4822 124 22646	ELEC. ALU	47µF 20% 16V
2763	4822 126 13848	CERAMIC SMD	100nF 10% 16V
2765	4822 126 13848	CERAMIC SMD	100nF 10% 16V
2906	4822 122 33342	CERAMIC SMD	33nF10%X7R 63V
2907	4822 122 33342	CERAMIC SMD	33nF10%X7R 63V
2908	4822 122 33342	CERAMIC SMD	33nF10%X7R 63V
2913	4822 126 13689	CERAMIC SMD	18pF 1% NP0 63V
2914	4822 126 13693	CERAMIC SMD	56pF 1% NP0 63V
2915	4822 124 41017	ELEC. ALU	10µF 16V
2916	4822 126 13848	CERAMIC SMD	100nF 10% 16V
2917	4822 126 13848	CERAMIC SMD	100nF 10% 16V
2919	4822 124 23504	ELEC. ALU	2.2µF20% 50V
2923	4822 122 33342	CERAMIC SMD	33nF10%X7R 63V

Resistors			
3366	4822 116 30426		4k7 3% 0.1W
3426	4822 100 12071	VARIAB.	EVNDXAA03B25
3518	4822 117 11449	CARBON	2k2 1% 0,1W
3540	4822 100 11681	VARIAB.	1k 30% 0,1W
3543	4822 100 11681	VARIAB.	1k 30% 0,1W
3672	4822 117 11383		12k 1% 0,1W
3674	4822 117 11449	CARBON	2k2 1% 0,1W
3676	4822 116 83868		150Ω 5% 0,5W
3689	4822 117 11449	CARBON	2k2 1% 0,1W
3692	4822 117 11449	CARBON	2k2 1% 0,1W
3713	4822 117 11449	CARBON	2k2 1% 0,1W
3721	4822 117 11383		12k 1% 0,1W
3731	4822 117 11449	CARBON	2k2 1% 0,1W
3939	4822 116 52177		110Ω 5% 0,5W
Coils			
5000	4822 157 71267		BLM32A06PT
5001	4822 157 71267		BLM32A06PT
5002	4822 157 71267		BLM32A06PT
5003	4822 157 71267		BLM32A06PT
5004	4822 157 71267		BLM32A06PT
5103	4822 157 71267		BLM32A06PT
5104	4822 157 71267		BLM32A06PT
5105	4822 157 71267		BLM32A06PT
5106	4822 157 71267		BLM32A06PT
5107	4822 157 11121		EMI 50V/2A ZJY
5401	4822 156 21719		1µ5H
5701	4822 157 70935		100µH 10A
5905	4822 152 20677		10µH
5909	4822 152 20677		10µH
Diodes			
6100	5322 130 34337		BAV99
6102	5322 130 34337		BAV99
6420	5322 130 34337		BAV99
6430	5322 130 34337		BAV99
6502	4822 130 83757		BAS216
6581	4822 130 83757		BAS216
6582	4822 130 83757		BAS216
6601	4822 130 83757		BAS216
6704	4822 130 83757		BAS216
6705	4822 130 80751		1S1885A
6706	4822 130 81196	POWER RECT.	S5566B
6708	4822 130 83757		BAS216
6710	4822 130 83757		BAS216
6711	4822 130 10185	REFERENCE	UDZ
6712	4822 130 82594		BAT54C
6713	4822 130 82594		BAT54C
6714	4822 130 83757		BAS216
6715	4822 130 83757		BAS216
6716	4822 130 83757		BAS216
6717	4822 130 83757		BAS216
6718	5322 130 34331		BAV70
6719	4822 130 82594		BAT54C
6720	4822 130 83757		BAS216
6721	4822 130 83757		BAS216
6722	4822 130 83757		BAS216
6723	4822 130 83757		BAS216
6724	4822 130 83757		BAS216
6726	4822 130 10655	POWER RECT.	1SR154-400
6761	4822 130 10185	REFERENCE	UDZ
6762	5322 130 34331		BAV70
6904	4822 130 10185	REFERENCE	UDZ
6905	4822 130 10185	REFERENCE	UDZ
6907	4822 130 10185	REFERENCE	UDZ
6908	4822 130 10185	REFERENCE	UDZ
6909	4822 130 10185	REFERENCE	UDZ
6920	4822 130 83757		BAS216
6921	4822 130 83757		BAS216
6922	4822 130 83757		BAS216
Transistors and IC's			
7102	5322 209 14542	IC DIG MOS	HEF4066BT
7103	4822 209 15194	µ-COMP	S87C654-5B44 + SW 22DC397 D40

7104	4822 209 15195	IC DIG MOS	PCF82C200
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F 16V					
nF 10% 16V					
F 5% 50V					
F 5% 50V					
pF 10% 50V					
pF 10% 50V					
pF 10% 50V					
F 16V					
F 16V					
µF 20% 10V					
µF 20% 10V					
F 16V					
µF 20% 50V					
F 5% X7R 63V					
nF 10% 16V					
nF 10% 16V					
F 5% X7R 63V					
nF 10% 16V					
20% 50V					
20% 50V					
20% 50V					
20% 50V					
F 10% 16V					
F 20% 16V					
nF 10% 16V					
nF 10% 16V					
nF 10% 16V					
F 10% 25V					
nF 10% 16V					
nF 10% 16V					
F 10% 25V					
µF 10V					
20% 50V					
20% 50V					
nF 10% 16V					
nF 10% 16V					
F 10% 0805 X7R					
F 10% 0805 X7R					
F 10% 16V					
F 20% 10V					
nF 10% 16V					
µF 20% 16V					
20% 50V					
F 20% 10V					
F 20% 16V					
µF 20% 25V					
20% 50V					
0µF 20% 16V					
nF 10% 16V					
nF 10% 16V					
nF 10% 16V					
µF 20% 16V					
nF 10% 16V					
µF 20% 25V					
µF 20% 25V					
µF 20% 35V					
µF 20% 50V					
20% 50V					
µF 10% 16V					
µF 20% 16V					
µF 10% 16V					
µF 10% X7R 63V					
µF 10% X7R 63V					
µF 10% X7R 63V					
µF 1% NPO 63V					
µF 1% NPO 63V					
µF 16V					
nF 10% 16V					
nF 10% 16V					
µF 20% 50V					
µF 10% X7R 63V					

Resistors					
3366	4822 116 30426			4k7 3% 0.1W	
3426	4822 100 12071	VARIAB.		EVNDXAA03B25	
3518	4822 117 11449	CARBON		2k2 1% 0.1W	
3540	4822 100 11681	VARIAB.		1k 30% 0.1W	
3543	4822 100 11681	VARIAB.		1k 30% 0.1W	
3672	4822 117 11383			12k 1% 0.1W	
3674	4822 117 11449	CARBON		2k2 1% 0.1W	
3676	4822 116 83868			150Ω 5% 0.5W	
3689	4822 117 11449	CARBON		2k2 1% 0.1W	
3692	4822 117 11449	CARBON		2k2 1% 0.1W	
3713	4822 117 11449	CARBON		2k2 1% 0.1W	
3721	4822 117 11383			12k 1% 0.1W	
3731	4822 117 11449	CARBON		2k2 1% 0.1W	
3939	4822 116 52177			110Ω 5% 0.5W	
Coils					
5000	4822 157 71267			BLM32A06PT	
5001	4822 157 71267			BLM32A06PT	
5002	4822 157 71267			BLM32A06PT	
5003	4822 157 71267			BLM32A06PT	
5004	4822 157 71267			BLM32A06PT	
5103	4822 157 71267			BLM32A06PT	
5104	4822 157 71267			BLM32A06PT	
5105	4822 157 71267			BLM32A06PT	
5106	4822 157 71267			BLM32A06PT	
5107	4822 157 11121			EMI 50V/2A ZJY	
5401	4822 156 21719			1µ5H	
5701	4822 157 70935			100µH 10A	
5905	4822 152 20677			10µH	
5909	4822 152 20677			10µH	
Diodes					
6100	5322 130 34337			BAV99	
6102	5322 130 34337			BAV99	
6420	5322 130 34337			BAV99	
6430	5322 130 34337			BAV99	
6502	4822 130 83757			BAS216	
6581	4822 130 83757			BAS216	
6582	4822 130 83757			BAS216	
6601	4822 130 83757			BAS216	
6704	4822 130 83757			BAS216	
6705	4822 130 80751			1S1885A	
6706	4822 130 81196	POWER RECT.		S5566B	
6708	4822 130 83757			BAS216	
6710	4822 130 83757			BAS216	
6711	4822 130 10185	REFERENCE		UDZ	
6712	4822 130 82594			BAT54C	
6713	4822 130 82594			BAT54C	
6714	4822 130 83757			BAS216	
6715	4822 130 83757			BAS216	
6716	4822 130 83757			BAS216	
6717	4822 130 83757			BAS216	
6718	5322 130 34331			BAV70	
6719	4822 130 82594			BAT54C	
6720	4822 130 83757			BAS216	
6721	4822 130 83757			BAS216	
6722	4822 130 83757			BAS216	
6723	4822 130 83757			BAS216	
6724	4822 130 83757			BAS216	
6726	4822 130 10655	POWER RECT.		1SR154-400	
6761	4822 130 10185	REFERENCE		UDZ	
6762	5322 130 34331			BAV70	
6904	4822 130 10185	REFERENCE		UDZ	
6905	4822 130 10185	REFERENCE		UDZ	
6907	4822 130 10185	REFERENCE		UDZ	
6908	4822 130 10185	REFERENCE		UDZ	
6909	4822 130 10185	REFERENCE		UDZ	
6920	4822 130 83757			BAS216	
6921	4822 130 83757			BAS216	
6922	4822 130 83757			BAS216	
Transistors and IC's					
7102	5322 209 14542	IC DIG MOS		HEF4066BT	
7103	4822 209 15194	µ-COMP		S87C654-5B44 + SW 22DC397 D40	

7104	4822 209 15195	IC DIG MOS		PCF82C200T	
7105	4822 209 15196	IC DIG MOS		PCA82C250	
7350	4822 209 33629	IC ANA		TDA7375	
7351	4822 209 33629	IC ANA		TDA7375	
7352	4822 130 60511	TRANS., <1W		BC847B	
7401	4822 209 83159	IC ANA		LA2000	
7403	4822 209 90304	IC ANA		TDA7330BD	
7420	4822 209 32742	IC ANA AMPL.		TL074IN	
7503	4822 130 60511	TRANS., <1W		BC847B	
7504	4822 130 60511	TRANS., <1W		BC847B	
7505	4822 130 60511	TRANS., <1W		BC847B	
7506	4822 130 41078	TRANS., <1W		BC640	
7507	4822 130 60511	TRANS., <1W		BC847B	
7508	5322 130 60508	TRANS., <1W		BC857B	
7509	4822 130 60511	TRANS., <1W		BC847B	
7510	4822 209 32744	IC ANA		TEA0675T/V1	
7511	4822 130 60511	TRANS., <1W		BC847B	
7512	4822 130 60511	TRANS., <1W		BC847B	
7513	4822 130 60511	TRANS., <1W		BC847B	
7514	4822 130 60511	TRANS., <1W		BC847B	
7515	4822 130 60511	TRANS., <1W		BC847B	
7516	4822 130 60511	TRANS., <1W		BC847B	
7581	4822 130 60511	TRANS., <1W		BC847B	
7601	4822 209 32995	IC ANA		TDA7313	
7662	4822 130 60511	TRANS., <1W		BC847B	
7663	4822 130 60511	TRANS., <1W		BC847B	
7664	4822 130 60511	TRANS., <1W		BC847B	
7701	4822 209 33029	IC ANA		TDA3602	
7706	4822 130 60511	TRANS., <1W		BC847B	
7710	5322 130 60508	TRANS., <1W		BC857B	
7711	5322 130 60508	TRANS., <1W		BC857B	
7712	4822 130 60511	TRANS., <1W		BC847B	
7713	4822 130 60511	TRANS., <1W		BC847B	
7714	4822 130 40995	TRANS., >=1W		BD438	
7715	5322 130 60508	TRANS., <1W		BC857B	
7716	5322 130 60508	TRANS., <1W		BC857B	
7717	4822 130 60511	TRANS., <1W		BC847B	
7718	4822 130 60511	TRANS., <1W		BC847B	
7719	4822 130 60511	TRANS., <1W		BC847B	
7720	5322 130 60508	TRANS., <1W		BC857B	
7721	4822 130 60511	TRANS., <1W		BC847B	
7722	5322 130 60508	TRANS., <1W		BC857B	
7723	5322 130 60508	TRANS., <1W		BC857B	
7724	5322 130 60508	TRANS., <1W		BC857B	
7760	4822 130 60511	TRANS., <1W		BC847B	
7761	4822 130 60511	TRANS., <1W		BC847B	
7762	4822 130 60511	TRANS., <1W		BC847B	
7763	4822 130 60511	TRANS., <1W		BC847B	
7764	5322 130 60508	TRANS., <1W		BC857B	
7765	4822 130 60511	TRANS., <1W		BC847B	
7768	5322 130 60508	TRANS., <1W		BC857B	
7769	4822 130 60511	TRANS., <1W		BC847B	
7906	5322 209 11446	IC DIG MOS		HEF4051BT	
7907	4822 130 60511	TRANS., <1W		BC847B	
7908	4822 130 60511	TRANS., <1W		BC847B	
7909	4822 130 42615	TRANS., <1W		BC817-40	
7910	4822 130 60511	TRANS., <1W		BC847B	
7911	4822 209 15197	µ-COMP		P87CE560EFB/00 + SW 22DC397 D40	
7912	5322 209 12323	EEPROM		CAT24C16PI	
7915	4822 130 42615	TRANS., <1W		BC817-40	

Mechanical Parts List		
5	MOUNTING SPRING	4822 492 71046
7	KNOB VOLUME	4822 413 31857
8	KNOB FADER, BASS, TREBLE	4822 413 31664
9	KNOB ASSY FOR CASSETTE	4822 410 63788
11	CONNECTOR AERIAL	4822 267 31697
1001-1001	TUNER IC96	4822 210 10729
1001-1002	CON BM V 10P M 1.27 90715 B	4822 265 10808
1001-1004	CON BM V 5P F 2.54 90720 B	4822 267 40818
1001-1005-1332	POT FADER	4822 100 11752
1001-1005-1333	POT BASS	4823 100 11752
1001-1005-1334	POT TREBLE	4824 100 11752
1001-1006-1336	POT VOLUME	4822 100 12255
1001-1007	CON BM V 10P F 1.00 FFC 0.3 B	4822 265 41215
1001-1009	CONNECTOR SPRING - INNOVAN	4822 265 10599
1001-1010	CONNECTOR BLOCK ASSY	4822 265 10814
1002	TAPE DECK LCA 1-4/1	4822 691 10556
1003-1800	DETACHABLE UNIT	4822 459 50945
1003-1805	ORNAMENTAL PLATE ASSY	4822 459 04416
1003-1805-4	CASSETTE FLAP	4822 443 10496
1003-1805-17	SPRING CASSETTE FLAP	4822 492 42533

EXPLODED VIEW

